

Wisconsin Department of Natural Resources

Attn: Chris Saari 2501 Golf Course Road Ashland, WI 54806









Subject:

Current Conditions Report Tower Standard 14267 State Highway 70 West Lac du Flambeau, WI BRRTS #03-64-127899 PECFA #54538-9517-67

Dear Chris,

Enclosed is the Current Conditions Report for the above referenced site. REI Engineering, Inc. (REI) has compiled this report utilizing data mainly from the re-opened investigation, but have referenced some of the historical investigation data as well as data compiled by the Environmental Protection Agency (EPA) contractors.

If you have any questions or concerns over the data presented in this report, please contact me at your earliest convenience at (715) 675-9784.

Sincerely,

REI Engineering, Inc.

David N. Larsen P.G.

Hydrogeologist/Project Manager

Enclosure

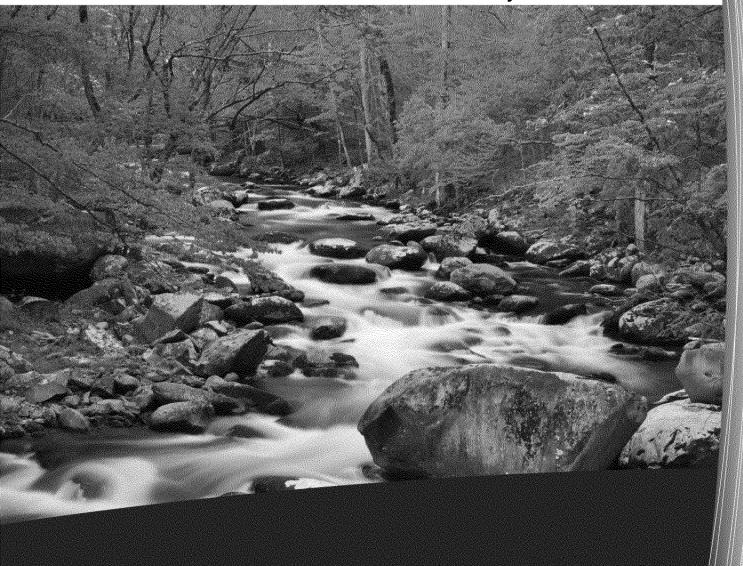
CC: Mr. William Kozak, 8760 W Squaw Lake Road, Lac du Flambeau, WI 54538





Tower Standard 14267 State Highway 70 West Lac du Flambeau, WI

BRRTS #03-64-127899
PECFA #54538-9517-67
REI PROJECT #903



COMPREHENSIVE SERVICES WITH PRACTICAL SOLUTIONS



TOWER STANDARD
14267 STATE HIGHWAY 70 WEST
LAC DU FLAMBEAU, WI 54538
BRRTS #03-64-127899

PECFA #54538-9517-67 REI Project #903

PREPARED FOR:

Mr. William Kozak 8760 W Squaw Lake Road Lac du Flambeau, WI 54538

MAY 2016



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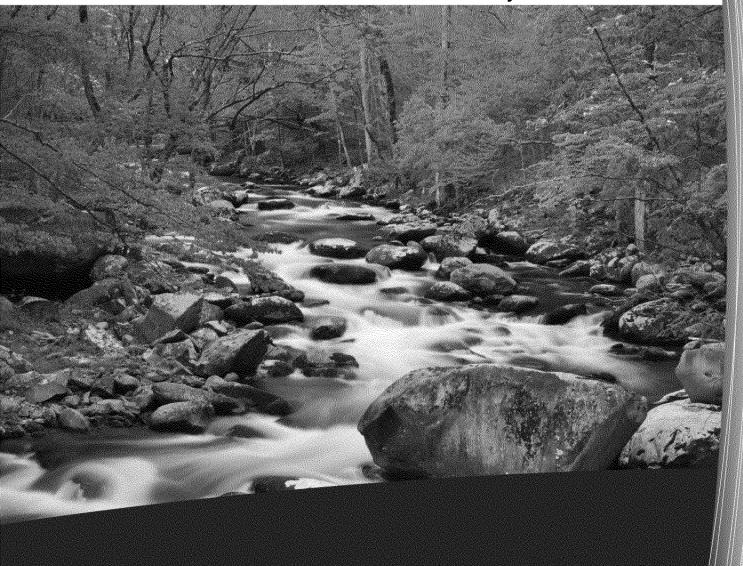
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"I, David N. Larsen, hereby certify that I am a registered Professional Geologist in the state of Wisconsin as defined in Wisconsin Statues Chapter 470.01. I also certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726. Wis. Adm. Code."

DAVID WIS. Adm.

COM

LARSEN
PG-1178
WAUSAU

WAUSAU

SONAL GEIMINING

"I, Mathew W, Rahn, hereby certify that I am a scientist as that term is defined in s. NR 712.03 (3), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

Matthew W. Rahn

Date

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TOWER STANDARD
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REI #903

1.0 Introduction

1.1 Purpose of Report

This report presents the preliminary results of an Environmental Site Inv estigation that is being performed at the Tower Standard site in Lac du Flambeau, Wisconsin. This site had previously been investigated and officially closed by the Wisconsin Department of Natural Resources (WDNR) in October 2006 following a hotspot soil excavation and operation of a groundwater extraction and treatment system.

The investigation was reopened in 2015 following an October 2006 fire , and subsequent investigation, at the former fireworks store located immediately north of the Tower Standard property at 14258 State Highway 70 West. The investigation was prompted by concern over potential soil and groundwater contamination associated with the fireworks as well as previous use of the property. The 14258 State Highway 70 West property formerly was used as a commercial automotive repair facility and before that a retail petroleum sales and repair shop.

The investigation at 14258 State Highway 70 West was conducted under the Targeted Brownfields Assessments (TBA) program for the United States Environmental Protection Agency (EPA) in response to a request from the Lac du Flambeau Tribe of Lake Superior Chippewa Indians (Tribe). Through the completion of the TBA investigation it was determined that a petroleum impacted groundwater source remained under the 14257 State Highway 70 West property which appeared to discharge towards Haskell Lake. The assumed source of the petroleum impacted groundwater was the neighboring Tower Standard site located at 14267 State Highway 70 West.

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The Wisconsin De partment of Natural Resources (WDNR) was notified of the TBA findings on February 6, 2014 and the Tower Standard investigation was re-opened on March 17, 2015. A Site Investigation Workplan for Tower Standard was submitted to the WDNR on June 25, 2015.

The reopening, and subsequent additional investigation efforts, of the Tower Standard project will be conducted concurrent with the EPA/Tribe investigation of the area. Bristol Environmental Remediation Services, LLC., Anchorage, AK (Bristol) is the current EPA contractor overseeing the EPA/Tribe approved scopes of service. All data reported by the EPA contractor(s) will be presented under separate cover and exclusive of REI reports unless specifically addressed in the REI report.

1.2 Site Background

1.2.1 Site Description

The Tower Standard site is located in the SE $\frac{1}{4}$ of the S W $\frac{1}{4}$ of Section 30, Township 40 North, Range 05 East, in the Town of Lac du Flambeau , Vilas County, Wisconsin (Figure 1). The site address is 14267 State Highway 70 West, Lac du F lambeau, Wisconsin 54538. Wisconsin Transverse Mercator (WTM) coordinates are 526,731/604,470.

The neighboring properties are shown on Figure 2 and are as follows:

North: State Highway 70 with the former fireworks store beyond

East: Former Timberland Tower Restaurant
South: Haskell Lake Lodge and Haskell Lake

West: Haskell Lake Lodge

1.2.2 Site History

The site is currently a bait and tackle shop. The property had previously been a gas station and automotive repair shop.



1.2.3 Previous Investigations

REI completed the initial investigation at the Tower Standard site . The initial investigation was opened in 1997 and closed in 2006.

The investigation into the potential soil and groundwater contamination resulting from the fire at the former fireworks stand (14258 State Highway 70 West) was expanded to include an investigation i nto the Tower Standard property. Investigative activities included the collection and analysis of soil and groundwater samples from the 14257 and 14277 State Highway 70 Wes t properties. Additionally, numerous potable water supply well samples were collected from neighboring wells for analysis under this investigation.

1.3 Potable Water Survey

The Tower Standard Service building and all neighboring buildings are serviced by private potable water supply wells.

1.4 Other Sources of Contamination

A review of the Wisconsin Department of Natural Resources (WDNR) Spills and Leaking Underground Storage Tank (LUST) list—was performed for the surrounding area. According to the Bureau of Remediation and Redevelopment Tracking System (BRRTS) database, three (3) releases have been reported—within a quarter mile of Tower Standard.

03-64-000821 - Tower Motel, 14277 State Highway 70 West

Opened: August 12, 1992

Closed: December 12, 2005

The former Tower Motel, currently operated as the Haskell Lake Lodge, is located directly southwest of the Tower Standard site (Figure 2). The investigation at the former Tower Motel was initiated when gasoline contamination was identified in the water supply well. Response efforts included the installation of a replacement potable well. The replacement potable well was drilled to 31 feet at the southeast corner of the motel, which also became impacted with gasoline. A third potable well was



drilled to a depth of 75 feet bls, which corresponded to encounter of bedrock, near the location of the second well (Figure 2). Petroleum compounds subsequently impacted the third well shortly after it was installed. A final replacement well was drilled near State Highway 70, northeast of the Haskell Lake Lodge, to the encounter of bedrock at approximately 43 feet bls. This is the potable well that currently services the Haskell Lake Lodge.

REI conducted a Wisconsin Department of Agriculture and Consumer Protection (DATCP) database search for known underground storage tanks and determined that a fuel oil underground storage tank (UST) was previously in use on the property. The UST was listed as a 6,117-gallon fuel oil UST and is listed as closed and remove d as of May 14, 1997. A copy of the database search is included in Appendix A.

It was later determined that the contamination that triggered the investigation at the 14277 State Highway 70 West property was caused by the Tower Standard release and no investigation into the 03-64-000821 release was warranted.

The database also shows a 500-gallon fuel oil UST and a 1,000-gallon fuel oil UST listed to the 14277 State Highway 70 West property. REI has no evidence of these tanks actually being located on the property, but rather the address listing is likely wrong and the tanks were associated with the 14257 State Highway 70 West property (Appendix A).

03-64-001172 - Timberland Tower, 14257 State Highway 70 West

Opened: September 19, 1994

Closed: January 2, 1997

The Former Yeschek/Timberland Tower Restaurant is located directly east of the Tower Standard site (Figure 2). Drake Environmental was retained to conduct an environmental site investigation. Based on the records from the Soil Remediation and G roundwater Monitoring Documentation Report (Drake, 1996), significant petroleum odors in the basement of the



restaurant following a heavy rain episode in June of 1994, prompted the investigation. Subsequently, it has been determined that the odors detected in the basement of the former Timberline Tower Restaurant were fuel oil and not gasoline related. The restaurant had a 1,000-gallon fuel oil tank located in the basement and a 550-gallon fuel oil tank located at the southeast corner of the building. Co ntamination associated with the fuel oil tanks was mainly restricted to the soil, with trace contamination observed in the groundwater.

REI conducted a database search for known underground storage tanks and documented that two (2) fuel oil UST's were r emoved from the property. The database listed the tanks as assigned to Tower Supper Club 63 on State Highway 70. The tanks were listed as closed/removed as of July 29, 1993, which corresponds to the tank removal date in the Drake report. A copy of the database search is included in Appendix A.

The database also shows a 500-gallon fuel oil UST and a 1,000-gallon fuel oil UST listed to the 14277 State Highway 70 West property (current Haskell Lake Lodge location). REI has low confidence these tanks actually were located on the property, but rather the address listing is likely wrong and the tanks were associated with the 14257 State Highway 70 West property (Appendix A). If this were the case, there are multiple tank UST closure documentations submitte d for the former Timberland Tower Restaurant location.

03-64-000754 - Grizzly Bill's 1420 State Highway 70 West

Opened: April 30, 1992

Closed: June 15, 1995

Grizzly Bill's is located approximately 700 feet northe ast of the Tower Standard site. Based on DATCP registration records (Appendix A), four (4) UST's were located on the site, one (1) 10,000-gallon leaded gasoline, one (1) 550-gallon leaded gasoline, one (1) 10,000-gallon unleaded gasoline and a 550-gallon premix tank. Soil contamination was reported to the DNR in 1992. Grizzly Bill's retained Fluid Management, as the



Environmental Consultant for the investigation into the fuel related release. According to Fluid Management's closure petition all petroleum related contamination was confined to the soil, and approximately 400 cubic yards of petroleum impacted soil was excavated in 1994. The site investigation was officially closed in 1995. Grizzly Bill's continued to dispense petroleum products commercially until October 1997, when all UST's we're removed. No petroleum contamination was reported during the tank removal procedure.

The DATCP database (Appendix A) also turned up retail petroleum UST's at the 14465 State Highway 70 West property. This is the current location of Crickets and a 2,000-gallon gasoline UST and a 3,000-gallon gasoline UST were listed as Closed/Removed as of August 19, 2003 by the Wisconsin Department of Transportation. Additionally, two (2) other UST's (contents listed as unknown and size listed a 1,111 gallons) were li sted as Administra tively Closed as of January 14, 2008. It is not known if these tanks have ever been removed.

It has also been confirmed that retail petroleum UST's were in use at the 14258 State Highway 70 West property (Former Timberland Tower locat ion). This property was the location of the former fireworks stand and the focus of the TBA investigation. Fuel oil UST's were also likely in use at this property. No reported tank registration or removal documentation was available on the DATCP database for this property.

2.0 METHOD OF INVESTIGATION

2.1 Soil

Delineation of the extent of soil contamination was conducted via either truck mounted hydraulic push or rotary equipped drill rigs. The borings were placed to aid in the determination of the lateral and vertical extents of the petroleum contamination. A total of forty-six (46) Geoprobe soil borings were advanced between September 14-16, 2015. A total of eight (8) borings were converted to temporary monitoring wells and groundwater samples we re collected. REI subcontracted Giles Engineering & Associates, Waukesha, WI to completed the soil boring scope of services.



Additionally, seventeen (17) soil borings were advanced between November 2-5, 2015. Seven (7) borings were converted to monito ring wells and seven (7) borings were converted into piezometers , the remaining three (3) borings encountered auger refusal and were abandoned The well network for the re -opened investigation began at MW16, as the 1997 investigation included 15 monitorin q wells/well nests. REI contracted with PSI, Chippewa Falls, WI to install the water table monitoring wells. Gestra Engineering, Waukesha, WI (Gestra) was contracted to install the piezometers nested with the water table wells. Previous site work had documented the difficulty in advancing the piezometers. Gestra mobilized to the site with a high torque drill rig equipped with new heavy -duty augers to complete the required drilling. All augers and tooling were pressure washed in a decontamination pad with all wash water recovered and properly disposed with the other investigative waste generated during the approved scopes of service.

Soil borings and well placement locations , along with property boundaries, are shown on Figure 2. Soil samples were scre ened using a Photo -Ionization Detector (PID) with a 10.6 eV lamp . Additional information regarding site specific soil characteristics and contaminant concentrations will be detailed in later sections of this report.

All soil cuttings were placed in 55 -gallon WDOT approved drums and transported to the Lincoln County Landfill commercial biopile in Merrill, Wisconsin for final disposal. Disposal documentation is included in Appendix B.

Soil Boring Logs (WDNR Form 4400 -122) are included in Appendix C. Moni toring Well Construction Forms (WDNR Form 4400 -133A) are included in Appendix D. Monitoring Well Development Forms (WDNR Form 4400 -133B) are included in Appendix E. Borehole Abandonment Forms (WDNR Form 33 00-5) are included in Appendix F. Methods and Procedures are presented in Appendix G. Photographs of the site are included in Appendix H.

2.2 Groundwater



A total of eight (8) temporary monitoring wells, seven (7) monitoring wells and seven (7) piezometers were installed to determine if the observed petroleum related soil contamination had impacted the groundwater at this site. Additionally, three (3) monitoring wells associated with the TBA perchlorate investigation (MW1 -LDF to MW3-LDF) have been included in the groundwater sampling network of the Tower Standard investigation. Construction details for these wells was not provided.

The average depth to groundwater ranges from approximately two (2) feet to ten (10) feet bls (Table 1). Depths to groundwater and groundwater elevation measurements were collected on a maximum of two (2) occasions.

Groundwater samples were collected from each monitoring well /piezometer using low flow sampling methodologies. Groundwater was extracted using a peristaltic pump and all field measurements were collected v ia a flow -through cell. The samples were placed in laboratory provided containers, packed on ice and submitted to a State Certified Laboratory for analysis. Additional information regarding site-specific groundwater characteristics is presented in later—sections of this report.

3.0 SUMMARY OF FIELD INVESTIGATION RESULTS

3.1 Regional Geology and Hydrogeology

The site is located in the Upper Wisconsin River Basin. The topography in the immediate area is rolling and slopes towards Lake Haskell. Topograph y in the surrounding area consists of rolling hills and pitted outwash deposits of sand or gravel, with many glacially derived lakes and streams.

According to the Soil Survey of Vilas County, the soils immediately beneath the Tower Standard property consist of Sayner -Rubicon complex soils. These soils consist of highly permeable sands and gravels. Surrounding the Sayner -Rubicon soils are the Seelyeville and Markey mucks. These soils are poorly drained and subject to ponding. These soils are highly organic and may contain wood fragments with depth. Subsurface soils are usually loamy sands.

The depth to bedrock is between 50 and 100 feet of land surface based on published geological information (Trotta & Cotter, 1973). Sediments near the land surface



consist of pitted and unpitted outwash along with other ice contact deposits, consisting mainly of sand and gravel with trace areas of ground moraine deposits. Surface soil permeability is estimated by Oakes and Cotter (1975) to be 5.0 -10.0 in/hr. The average annual precipitation in the area is about 31.3 inches. The typical evapotranspiration rate is about 18.9 inches per year, leaving approximately 12.4 inches per year for both overland flow and groundwater recharge. The groundwater recharge rate will be assumed to be the NR 720.09(3) default rate of 10.0 inches per year.

Land surface elevations in the area are about 1565 \pm 10 feet above Mean Sea Level (MSL) according to the Lac du Flambeau 7 $\frac{1}{2}$ minute quadrangle map. The natural discharge for the shall ow groundwater beneath the Tower Standard site and the surrounding area appears to be Lake Haskell, located directly behind the Tower Standard property.

3.2 Site Specific Geology and Hydrogeology

The soil borings performed during the investigation indicate the site geology mainly consists of sands and gravels. Bedrock was not encountered during the investigation. Figures 3a-b present the geologic cross sections of the soils identified at the site.

The average depth to groundwater ranges from approximately two (2) feet to ten (10) feet bls (Table 1). Depths to groundwater and groundwater elevation measurements were collected on a maximum of two (2) occasions. A water level hydro graph is presented in Figure 4. Hydraulic gradients were calculated from the site data collected on April 26, 2016. Horizontal gradients in the shallow water table were calculated at 0.006 ft./ft. between wells MW19 and MW16. Vertical gradients were also calculated across each well nest. Groundwater contaminant concentrations in the piezometers documents a downward vertical component, with the exception of the MW20 wells nest. Calculated gradients are depicted in Table 2 for the April 26, 2016 sample data.

Site specific hydraulic conductivity has not been conducted at this site. Data from the previous investigation regarding site specific data relative to conductivity values was previously presented. A soil sample was collected from MW2 (associated with the



1997 investigation) from a depth of 10-12 feet bls and submitted for mechanical grain size analysis. Particle size analysis by the Hydrometer Method and soil classification using the Unified Soil Classification System (USCS) was performed. Published estimates of typical values for the soils classified as SP -SM in the U SCS system indicates the hydraulic conductivity are approximately 1.5 ft./day to 28 ft./day.

Hydraulic conductivities were also interpreted using the Hazen Method. An estimated hydraulic conductivity value of 16.3 ft./day was calculated for the soil sample collected from MW2 at 10 -12 feet bls (Table 3). This value corroborates the assumed hydraulic conductivity determined through the published estimates.

The hydraulic conductivity of the surficial soils at the Tower Standard site is estimated at being 16.3 feet/day and can be used for estimating clean up time estimates under natural conditions. Contaminant velocities will be less than groundwater velocities, and will depend on the retardation factors for each contaminant.

The natural rate of lateral gr oundwater movement is estimated to be approximately 90 feet per year. The estimate is based on the estimated horizontal hydraulic conductivity and the horizontal gradients observed at the site. Contaminant velocities are less than groundwater velocities, and depend on the retardation factor of each contaminant.

The average depth to groundwater ranges from approximately two (2) feet to ten (10) feet bls (Table 1). Therefore, the physical and hydraulic properties of the sands and gravel are probably most representative of the material below the water table through which most contaminant travel occurs.

Figure 2 shows the locations of the ten (10) monitoring wells and seven (7) piezometers installed during the site investigation. Depths to groundwater were measured in the monitoring wells as part of each sampling event. Figure 5 is a water table contour map constructed from water level data collected on April 26, 2015. This figure shows groundwater flowing south/southeast with Haskell Lake as the likely local discharge point for the shallow groundwater.



Figure 6 is a groundwater contour map constructed from water level data collected from the 35 -40-foot-deep piezometers on April 26, 2015. This figure shows groundwater flowing northwest towards the potable wells servicing both 14267 and 14277 State Highway 70 West.

3.3 Nature and Extent of Soil Contamination

The average depth to groundwater ranges from approximately two (2) feet to ten (10) feet bls (Table 1). A total of sixty-five (65) soil samples were collected for analysis at the site during the re-opened REI site investigation. Tables 4a-c presents a summary of the results from the samples collected for analysis. Copies of the soil laboratory analytical reports are included in Appendix I.

Soil samples were obtained to describe the lateral and vertical extent of gasoline contamination in the subsurface. Analytical results were directly compared against the State of Wisconsin's cleanup criteria listed in the Chapter NR720. The so il samples collect ed from BH -12@8.5-9.5 feet bls, BH -22@6.5-7.5 feet bls and BH -32B@6-7 feet bls document the presence of petroleum compounds exceeding the NR 720.09(04) Non-Industrial Not-to-Exceed Residual Contaminant Level (RCL) values.

Analytical results were also input into the WDNR Direct -Contact Exceedance - Cumulative Hazard Risk Calculator. This is used to determine the number of individual soil contaminant exceedances along with a cumulative hazard risk and cumulative cancer risk. This analysis is based on non-industrial soil limits and is typically enforceable only on the top four (4) feet. Results are included in Appendix J.

Soil sample BH -22 from 1 -2 feet bls documents significant shallow residual soil contamination. BH-22 is located on the former restaurant property and beneath what appears to be original asphalt. Depth to groundwater is expect to be approximately seven (7) feet bls. The source for the residual contamination is not known, but the shallow soil data from samples BH-12 and BH-32 suggest the source may not be from activities at Tower Standard.



Based on field screening and analytical results, the estimated extent of residual soil contamination associated with the petroleum contamination encompasses an area of approximately 2,675 square fee t (F igure 7). The reported soil contaminant concentrations are less than the "Not to Exceed Direct Contact Residual Contamination Level" (NTEDC -RCL), but greater than the groundwater protection pathway thresholds. The direct contact RCL's are only enforceable in the top four (4) feet of the soil profile.

3.4 Groundwater Quality

Two (2) groundwater -sampling event s have been conducted during the s ite investigation. The first w as completed b etween November 10 and November 17 2015. The second was completed on April 26, 2016. Well specific field data sheets are included in Appendix K for each well during each sampling event.

Analysis of the groundwater samples from the two (2) sampling events indicate contaminant concentrations above the NR 140.10 Groundwater Quality Enforcement Standards (ES) and Preventive Action Limits (PAL) for petroleum compounds in monitoring wells MW 16, MW16@37-42, MW19@35-40, MW20, MW20@20-25, MW21and MW21@35-40. Additional groundwater samples were collected from temporary wells installed in Geoprobe borings BH-17, BH-22A, BH-26@27', BH-35B and BH-36@39'. A summary of groundwater analytical results is presented in Table s 5a-r. Copies of the laboratory analytical reports are included in Appendix I. All purge water was disposed of at the City of Wausau Waste Water Treatment Facility in Wausau, Wisconsin. Disposal documentation is included in Appendix L.

The estimated extent of petroleum related groundwater contamination is shown in Figure 8. The eastern extent and the vertical extent of the petroleum related groundwater contamination plume is not adequately defined and additional monitoring wells and piezometers are warranted.

3.5 Vapor Intrusion Screening Analysis

Vapor intrusion screening is used to determine the potential for vapor migration from a contaminated property. Vapor intrusion of petroleum compounds most often



occurs when free phase petroleum compounds are located near building foundations, where petroleum impacted groundwater has entered a building, or when petroleum contaminated groundwater is in contact with a building foundation.

Vapor intrusion from petroleum releases tend to occur near the source of the petroleum release and are often detected by smelling petroleum odors in the building. When petroleum odo rs are not detected, vapor intrusion concerns can be dismissed if there is more than five (5) feet of clean unsaturated and aerated (greater than 5 % oxygen content) soil separating the residual contamination from the building.

An investigation into the potential for vapor migration should be completed in situations when there is not more than five (5) feet of clean unsaturated and aerated (greater than 5% oxygen content) soil separating the residual contamination from the building or any of the following conditions:

· .
Free phase product that has the potential for off gassing vapors underlies a
building or is within 30 feet, horizontally or vertically of a building foundation.
Petroleum contaminated soils with the potential for off gassing vapors are
within 5 feet or less of a building foundation.
Benzene concentrations in groundwater underlying a building is >1,000 ppb
and there is less than 20 feet of unsaturated soil between the groundwater and
the building.
Groundwater contaminated with petroleum product above Wisconsin's
groundwater preventive action limit (PAL) is entering a building or in contact
with a buildings foundation or is in water intercepted by the buildings
foundation drainage system, including sumps.
Petroleum vapors are present that may m igrate from the petroleum source
and move through preferential pathways (utility lines, fractured bedrock, etc.)
into a building.

3.5.1 Vapor Intrusion Assessment and Vapor Screening Results

A vapor intrusion assessment was completed for the existing structure (14267 State Highway 70 West).



3.5.1.1 Tower Standard Service (14267 State Hwy 70 West)

In discussions with the property owner, no petroleum vapors have been reported in the building. The soil in the immediate vicinity of the former service station is mainly sands and gravels. Since the oxygen content in the soil is not known the additional bulleted items will need to be addressed.

- Free phase product that has the potential for off gassing vapors underlies a building or is within 30 feet, hori zontally or vertically of a building foundation.
 - Free product has not been observed in any of the wells installed and sampled as part of the re-opened investigation.
- Petroleum contaminated soils with the potential for off gassing vapors are within 5 feet or less of a building foundation.
 - No documented soil contamination was reported within five (5) feet of the building foundation. Soil samples BH -1, BH-17, BH-18 and BH -19 were all advanced within five (5) feet of the building foundation.
- Benzene concentrations in groundwater underlying a building is
 >1,000 ppb and there is less than 20 feet of unsaturated soil
 between the groundwater and the building.
 - The only wells with benzene concentrations exceeding 1,000 ppb are: MW16@37-42, MW20, MW20@20 -25, and MW21@ 35-40 (11 -11-15 only). While there is less than twenty (20) feet of unsaturated soil between the groundwater and the building, none of the im pacted groundwater underlies any of the buildings on the Tower Standard property or the neighboring properties.
- Groundwater contaminated with petroleum product above
 Wisconsin's groundwater preventive action limit (PAL) is
 entering a building or in contact with a buildings foundation or is
 in water intercepted by the buildings foundation drainage
 system, including sumps.

The Tower Standard building is constructed as a slab on grade structure without any foundation drainage system.



Petroleum vapors are present that may migrate from the petroleum source and move through preferential pathways (utility lines, fractur ed bedrock, etc.) into a building.
 No known petroleum vapors are present. There are no known preferential pathways that exist that may be a conduit for vapor intrusion that have not been investigated.

3.5.2 Sub-Slab Vapor Probe Installation and Sampling

Bristol was contracted with the collection of vapor samples from the former Tower Standard Service building. Bristol personnel were on site on April 1, 2016 and installed a sub—slab vapor point—through the concrete floor of the building and collected a sub-slab air sample. Bristol personnel also collected both ambient indoor and outdoor air samples.

3.5.3 Sub-Slab Vapor Probe and Ambient Air Sample Results

The three (3) vapor samples collected by Bristol personnel were submitted to Pace Analytical, Minneapolis, Minnesota, for TO -15 analysis. The vapor analytical results and field screening data are summarized in Table s 6a-b. The complete laboratory analytical reports are included as Appendix M. Analytical results document that there are no elevat ed petroleum concentrations present beneath the concrete slab or in the indoor air of the Tower Standard building.

4.0 EVALUATION OF ENVIRONMENTAL FACTORS

The five (5) environmental factors as outlined in NR 747.337 (3) were evaluated during the site investigation. These factors include:

- a. Documented expansion of plume margin,
- b. Verified contaminant concentrations in a private or potable well exceeding the PAL,
- c. Contamination within bedrock or within 1 meter of bedrock,
- d. Free phase petroleum product present with a thickness of 0.01 feet or more, verified by more than one sampling event, or
- e. Documented contamination discharges to a surface water or wetland.



The initial investigation completed at the Tower Standard Service site exhibited many of the environment al factors. Additional investigative work will be required to determine if the re—opened investigation exhibits the presence of any of the environmental factors.

4.1 Regulatory Site Classification

Administrative authority over regulatory management of the site is determined by a classification system. According to NR 746.04(a) DNR shall have authority over sites that have been classified as "high-risk", sites that have not been classified and sites with soil and groundwater contamination that are contaminated by one or more substances other than petroleum compounds.

According to NR 746.03(6) a "high-risk" site is defined in SS 101.144(aq) as a release from a petroleum storage tank if one or more of the following applies:

- 1) Repeated tests determined the release has impacted a potable well used for human consumptive use.
- 2) Petroleum product that is not in a dissolved phase and present in a thickness of greater than 0.01 feet or more in repeated measurements.
- 3) An enforcement standard exceedance in gro undwater within 1,000 feet of a municipal well or within 100 feet of any other well used for human consumptive use.
- 4) An enforcement standard exceedance in fractured bedrock.

According to NR 746.03(6) a "medium -risk" site is defined as a discharge of petroleum product from a petroleum storage tank where contaminants have extended beyond the boundary of the source property, or there is confirmed contamination in the groundwater, but the site does not meet the definition of a "high-risk" site.

According to NR 746.03(6) a "low -risk" site is defined as a discharge of petroleum product from a petroleum storage tank where contaminants are contained only within the soil of the source property and there is no confirmed contamination in the groundwater.



The Tower Standard Service investigation is currently viewed as a medium risk site, due to groundwater impacts and potential migration of impacted groundwater beyond the property boundaries. None of the high -risk factors have been observed during the re-opened investigation.

5.0 CONCLUSIONS AND RECOMMENDATIONS

REI has concluded that the extent of the soil release has been adequately defined and no further investigation is necessary. Additionally, none of the reported soil contaminant concentrations are greater the an the Not to Exceed Direct Contact Residual Contamination Level" (NTEDC -RCL) for each specific identified analyte within the top four (4) feet of the soil column. The area of residual soil contamination is covered with an asphalt parking lot creating a barrier between the surface and the residual soil contamination.

Based on the sub—slab and ambient air vapor sample results collected by Bristol, vapor intrusion is not a concern at the Tower Standard building. REI is not recommending any further vapor—analysis be conducted unless there is a changed condition.

The eastern and northern extent of the groundwater contamination plume is not well defined and additional monitoring wells and piezometers are warranted. Additionally, the vertical extent of th e contaminant plume is not defined and piezometers nested with the existing wells MW16, MW19, MW20 and MW22 warranted. REI recommends the piezometers be advanced to en counter with presents the locations of the proposed additional we bedrock. Figure 9 lls and piezometers. The groundwater from the new wells should be analyzed for VOC parameters for the first round. Subsequent groundwater sample events should be limited to analysis for PVOC and naphthalene compounds , unless site conditions dictate additional analyte sampling is warranted. Hydraulic conductivity analysis should also be delayed to allow for potential inclusion of any additional wells and piezometers recommended to be installed for this investigation.

6.0 REFERENCES



Trotta, L.C., and C otter, R.D., 1973, Depth to Bedrock in Wisconsin, University of Wisconsin - Extension Geological and Natural History Survey, Madison, Wisconsin.

Oakes, E.L. and Cotter, R.D., 1975, Water Resources of Wisconsin, Upper Wisconsin River Basin, U.S. Geologic Survey Hydrologic Investigations Atlas HA-536, Washington, D.C.

Table 1 Depth to Water and Water Level Elevations Tower Standard Lac du Flambeau, WI

oth to Water (feet) below Reference Eleva	tion
to Water (feet) below Reference	Eleva
to Water (feet) below Re	4
to Water (feet) be	v Re
to Wat	belo
to Wat	(feet)
th to	Water
	th to

MW22@35-40 8.06 8.07	1576.18 1540.61 1535.61 5.00	1576.61	8.07 8.06 0.01		MW22@35-40	1568.12
MW22 I	1575.98 1571.07 1561.07 10.00	1576.60	7.19 6.99 0.20		MW22	1568.79 1568.99
MW21@35-40 7.81 7.33	1575.47 1540.31 1535.31 5.00	1575.72	7.81 7.33 0.48		MW21@35-40	1568.14
MW21 7.42 6.95	1575.11 1572.37 1562.37 10.00	1575.65	7.42 6.95 0.47	_	MW21	1568.16
MW20@20-25 7.85 7.39	1575.53 1556.61 1551.61 5.00	1575.87	7.85 7.39 0.46	-	MW20@20-25	1568.14
MW20 7.63 7.18	1575.31 1573.01 1563.01 10.00	1575.89 7.63	7.63 7.18 0.45	-	MW20	1568.13
MW19@35-40 9.26 8.79	1576.92 1542.53 1537.53 5.00	1574.31	9.26 8.79 0.47	_	MW19@35-40	1568.13
8.97 8.45	1576.61 1569.45 1559.45 10.00	1574.15	8.97 8.45 0.52		<u>MW19</u>	1568.16
MW18@35-40 9.90 11.52	1577.55 1541.98 1536.98 5.00	1575.15	11.52 9.90 1.62	_	MW18@35-40	1567.65 1566.03
MW18 9.48 9.50	1577.53 1561.73 1551.73 10.00	1575.00	9.50 9.48 0.02		<u>MW18</u>	1568.05 1568.03
MW17@31-36 8.44 8.64	1575.99 1537.70 1532.70 5.00	1576.26	8.64 8.44 0.20	_	MW17@31-36	1567.55 1567.35
8.01 8.00	1575.98 1570.94 1560.94 10.00	1576.44	8.01 8.00 0.01	_	<u>MW17</u>	1567.97 1567.98
MW16@37-42 1.91 2.05	1569.14 1537.84 1532.84 5.00	1569.50	2.05 1.91 0.14	-	MW16@37-42	1567.23 1567.09
MW16 2.02 2.10	1569.20 1574.17 1564.17 10.00	1569.60	2.10 2.02 0.08	_	<u>MW16</u>	1567.18 1567.10
6.87 6.87 5.84	1575.50	1575.63	6.87 5.84 1.03		MW3 (LDF) 1568.63	1569.66
MW2 (LDF) 9.10 8.60	vell casing) vided by others 1577.84	1578.15 saing	9.10 8.60 0.50	-	MW2 (LDF) 1568.74	1569.24
6.58 6.58 5.58	tions (top of v hmark (feet MSL) - prod 1575.57	ion 1572.66 1572.66 6.58	6.58 5.58 1.00	(feet MSL)	MW1 (LDF) 1568.99	1569.99
Date 11/10/2015 11/11/2015 11/11/2015 4/26/2016	Measuring Point Elevations (top of well casing Elevations referenced to a U.S.C.S. Benchmark (feet MSI), - provided by others Top of Casing 1575.57 1577.84 Top of Screen Bottom of Screen Screen Length	Ground Surface Elevation Initial Survey 1572.66 1578 Depth to Water (feet) below Top of Casing Average 6.58 9.1	Maximum Minimum Range	Water Level Elevation (feet MSL)	Date 11/10/2015	11/11/2015 11/17/2015 4/26/2016

Table 2
Vertical Gradient Documentation
Tower Standard
Lac du Flambeau, WI

	Piezometer	Water Level	Elevation	Vertical	Vertical Gradient ft/ft
	Depth	Elevation	Difference	Difference	(-/+)
		April 26, 2016	2016		
MW16		1,567.10	0.01	31.76	-0.0003
MW16@37-42	42'	1567.09			
MW 17		1567.98	0.63	32.78	-0.0192
MW17@31-36	36'	1567.35			
MW18		1568.03	2.00	28.55	-0.0701
MW18@35-40	40,	1566.03			
MW19		1568.16	0.03	28.13	-0.0011
MW19@35-40	40,	1568.13			
MW20		1568.13	-0.01	14.03	0.0007
MW20@20-25	25'	1568.14			
MW21		1568.16	0.02	30.33	-0.0007
MW21@35-40	40,	1568.14			
MW22		1568.99	0.88	30.88	-0.0285
MW22@35-40	40,	1568.11			

Table 3
Hydraulic Conductivity Calculations
Tower Standard
Lac Du Flambeau, WI

Soil Source: MW2 @ 10-12 feet bls

Hazen Method for Calculating Hydraulic Conductivity (Fetter, 1994)

Note:

This method is applicable to sands where the effective grain size (d10) is between approximately $0.1\ \mathrm{and}\ 3.0\ \mathrm{mm}.$

Table 4a Summary of Soil Analytical Results Tower Standard Lac du Flambeau, Wisconsin

		Date>	9/14/2015	2015	9/14/	9/14/2015	9/14,	9/14/2015	9/14/2015	2015	9/14/2015	3015	9/14/2015	2015	9/14/2015	2015	9/14/2015	2015	9/14/2015	2015
	3S	Sample ID>	BH-1	I-1	BF	BH-2	BI	BH-3	BH-4	1 -1	BH-5	-5	9-HB	9-j	BH-7	<i>L</i> -1	BE	BH-7	BH-8	8-
	Sample Dep	Sample Depth (Feet)>	2-4	2-2	2-4	2-8	2-4	2-8	1-2	2-9	1-2	2-9	1-2	<i>L</i> -9	1.5-2.5	<i>L</i> -9	1-2	5.5-6.5	1.5-2.6	5.5-6.7
	PID Detection Result>	n Result>																		
	Percent 1	Percent Moisture>	%0.6	8.2%	7.4%	%6.6	%8'9	8.3%	7.7%	9.2%	4.2%	6.0%	5.7%	5.0%	8.0%	5.7%	7.7%	7.3%	5.7%	7.4%
Petroleum VOC's (μg/kg)	Non- Industrial Not To-Exceed DC RCL	Oroundwater Pathway Protection (DF=2)																		
Benzene	1,490	5.1	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Ethylbenzene	7,470	1,570	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Toluene	818,000	1,107	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Xylenes (Total)	258,000	3,940	< 50	< 50	05>	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Methly tert Butyl Ether	59,400	27	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
1,2,4-Trimethylbenzene	89,800	NS	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
1,3,5-Trimethylbenzene	182,000	NS	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Trimethylbenzenes (Total)	NS	1,379	< 50	> 50	> 50	< 50	> 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Naphthalene	5,150	658.7	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Number of Individual Exceedances (DC)	idual Exceeda	nces (DC)3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cumulat	Cumulative Hazard Index (DC)	rdex (DC)	0.0007	0.0007	2000'0	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007
Cumul	Cumulative Cancer Risk (DC)-	Risk (DC)-	2.5E-08	2.5E-08	2.5E-08	2.5E-08	2.5E-08	2.5E-08	2.5E-08	2.5E-08	2.5E-08	2.5E-08	2.5E-08	2.5E-08	2.5E-08	2.5E-08	2.5E-08	2.5E-08	2.5E-08	2.5E-08
		Date>	9/14/2015	9/14/2015	2015	9/14/2015	2015	9/14/2015	2015	9/14/2015	9/14/2015	9/15/2015	015	9/15/2015	9015	9/15/2015	2015	9/15/2015	9/15/2015	2015
	Sa	Sample ID>	BH-10	BH-11	-111	BH-12	-12	BH-13	-13	BH-15	BH-16	BH-17	17	BH-18	18	BH-19	19	BH-20	BH-21	21

Sample Dept PID Detection Percent N Non- Industrial Not			7 1 1 1	6/14/2015	9/14/2015	CIO	9/14/2015	CIT	6/14/2015	9/14/2015	9/15/2015	2015	9/15/2	9/15/2015	9/15/2015	2015	9/15/2015	9/15/2015	2015
		BH-10	BH-11	11	BH-12	12	BH-13	.3	BH-15	BH-16	BH-17	17	BH-18	-18	BH-19	-19	BH-20	BH-21	.21
Indu		6-9.5	1-2	8.5-9.0	0.5-1.5	8.5-9.5	1-2	6-8	0.0-1.5	9-9	1.5-2.5	2-2	1-2	5.5-6.5	5-7	6-7	5.7	1-2	6.5-7.5
Nor	sult>																		
Non- Industrial Not		6.7%	6.7%	8.5%	7.8%	4.0%	4.6%	7.8%	8.1%	%6.9	6.7%	11.3%	6.5%	5.6%	8.2%	8.4%	10.3%	3.8%	4.9%
Ī	NR 140 roundwater Pathway Protection (DF=2)																		
Benzene 1,490 5.1		< 25	< 25	< 25	45.1 ^J	< 125	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Ethylbenzene 7,470 1,570		< 25	< 25	< 25	30.9 ^J	1,380	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	999
Toluene 818,000 1,107		< 25	< 25	< 25	132	130 ^J	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	165
Xylenes (Total) 258,000 3,940		< 50	< 50	< 50	216.3	9,670	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	80.0^{J}	3,283
Methly tert Butyl Ether 59,400 27		< 25	< 25	< 25	< 25	< 125	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
1,2,4-Trimethylbenzene 89,800 NS		< 25	< 25	< 25	35.9 ^J	26,100	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	49.8	2,810
1,3,5-Trimethylbenzene 182,000 NS		< 25	< 25	< 25	33.9 ^J	8,300	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	916
Trimethylbenzenes (Total) NS 1,37	1,379	< 50	< 50	< 50	< 50	34,400	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	49.8	3,729
Naphthalene 5,150 658.7		< 25	< 25	< 25	< 25	6,760	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	527
Number of Individual Exceedances (DC)	(DC)	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Cumulative Hazard Index (DC)		0.0007	0.0007	0.0007	0.0013	0.3496	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0010	0.0394
Cumulative Cancer Risk (DC)		2.5E-08	2.5E-08	2.5E-08	4.0E-08	1.6E-06	2.5E-08	2.5E-08	2.5E-08	2.5E-08	2.5E-08	2.5E-08	2.5E-08	2.5E-08	2.5E-08	2.5E-08	2.5E-08	2.5E-08	2.1E-07

NR720 Standards Obtained From WDNR Online Excel Database
RCL - NR 720 Proposed Soil Residual Contaminant Level
DC - Direct Contact
Exceeds Non-Industrial Not-To-Exceed DC RCL
Exceeds Nn-Industrial Not-To-Exceed DC RCL

- Exceeds Nn-Industrial Not-To-Exceed DC RCL
- Exceeds Nn-Industrial Not-To-Exceed DC RCL
- Exceeds Nn-Industrial Not-To-Exceed DC RCL
- Exceeds Nn-Industrial Not-To-Exceed DC RCL
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- Exceeds Nn-Industrial Not-To-Exceed DC RCL
- Exceeds Nn-Industrial Not-To-Exceed DC RCL
- Exceeds Nn-Industrial Not-To-Exceed DC RCL
- Exceeds Nn-Industrial Not-To-Exceed DC RCL
- Exceeds Nn-Industrial Not-To-Exceed DC RCL
- Industrial Not-To-Exceed

EPA-R5-2017-010506_0002346

Table 4b Summary of Soil Analytical Results Tower Standard Lac du Flambeau, Wisconsin

		Date>	9/15/2015	2015	9/15/2015	9/15/2015	9/15/2015		9/15/2015	9/15/2015	115	9/15/2015	115	9/15/2015	215	9/16/2015	015	9/16/2015	9/16/2015	015
		Sample ID>	BH-22	-22	BH-23A	BH-23C	BH-24	34	BH-25	BH-26	9;	BH-27	7.	BH-28	38	BH-29	59	BH-30	BH-31	31
	Sample D	Sample Depth (Feet)>	1-2	6.5-7.5	4.5-5.5	<i>L</i> -9	1.5-2.5	6.5-7.5	1-2	1-2	<i>L</i> -9	1.5-2.5	6.5-7.5	1.5-2.5	7-8	1-2	2-8	0.5-1.5	1-2	6.5-7.5
	PID Detec	PID Detection Result>																		
	Perce	Percent Moisture>	7.1%	5.3%	4.6%	8.3%	5.1%	8.4%	6.7%	3.0%	3.5%	4.0%	37.6%	3.4%	4.9%	5.5%	5.8%	3.9%	4.7%	5.0%
Petroleum VOC's (μg/kg)	Non- Industrial Not To-Exceed DC RCL	Oroundwater Groundwater Pathway Protection (DF=2)																		
Benzene	1,490	5.1	594	3,720 ^J	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Ethylbenzene	7,470	1,570	3,290	87,000	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Toluene	818,000	1,107	3,750	114,000	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Xylenes (Total)	258,000	3,940	18,720	443,000	< 50	< 50	< 50	< 50	< 50	56.6 ¹	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Methly tert Butyl Ether	59,400	27	< 25	< 2,000	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
1,2,4-Trimethylbenzene	89,800	NS	5,030	206,000	< 25	< 25	< 25	< 25	< 25	68.3	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
1,3,5-Trimethylbenzene	182,000	NS	1,340	67,600	< 25	< 25	< 25	< 25	< 25	35.8 ^J	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Trimethylbenzenes (Total)	NS	1,379	6,370	273,600	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Naphthalene	5,150	658.7	538	35,300	< 25	< 25	< 25	< 25	< 25	27.3 ^J	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Number of Individual Exceedances (DC)	ividual Excee	dances (DC)	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cumu	ılative Hazard	Cumulative Hazard Index (DC)	0.0885	3.1417	0.0007	0.0007	0.0007	0.0007	0.0007	0.0188	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007
Cun	nulative Cance	Cumulative Cancer Risk (DC)	9.4E-07	2.1E-05	2.5E-08	2.5E-08	2.5E-08	2.5E-08	2.5E-08	1.6E-07	2.5E-08	2.5E-08	2.5E-08	2.5E-08	2.5E-08	2.5E-08	2.5E-08	2.5E-08	2.5E-08	2.5E-08

		Date>	9/16/2015	2015	9/16/2015	9/16/2015	2015	9/16/2015	2015	9/16/2015	9/16/2015	2015	9/16/2015
		Sample ID>	BH-32B	32B	BH-33	PH-34	-34	В 52-НВ	35B	BH-36B	BH-37B	37B	Trip Blank
Sa	mple D	Sample Depth (Feet)>	0.5-1.0	<i>L</i> -9	6-8	1-2	6-8	1-2	6-8	0.5-1.0	1-2	5.5-6.5	
PI	D Detec	PID Detection Result>											
	Percer	Percent Moisture>	5.6%	7.2%	9.1%	2.8%	3.4%	7.1%	17.9%	7.9%	5.2%	8.4%	
[Indus Io-ol Io-ol	Non- Industrial Not To-Exceed DC RCL	NR 140 Groundwater Pathway Protection (DF=2)											
	1,490	5.1	56.8	< 1,000	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
ì	7,470	1,570	877	38,500	< 25	< 25	< 25	< 25	45.4J	< 25	< 25	< 25	< 25
8	818,000	1,107	142	24,900	< 25	< 25	< 25	< 25	49.3J	< 25	< 25	< 25	< 25
2	258,000	3,940	3,751	226,100	< 50	< 50	< 50	56.6 ^J	413	< 50	< 50	< 50	< 50
	59,400	27	< 25	< 1,000	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
	89,800	SN	1,160	147,000	< 25	< 25	< 25	68.3	182	< 25	< 25	< 25	< 25
	182,000	NS	652	44,200	< 25	< 25	< 25	35.8^{J}	128	< 25	< 25	< 25	< 25
	NS	1,379	1,812	191,200	< 50	< 50	< 50	< 50	310	< 50	< 50	< 50	< 50
	5,150	658.7	< 25	31,900	< 25	< 25	< 25	27.3 ^J	177	< 25	< 25	< 25	< 25
Vid	ual Exceed	Number of Individual Exceedances (DC)	0	3	0	0	0	0	0	0	0	0	0
ati	ve Hazard	Cumulative Hazard Index (DC)	0.0188	2.1401	0.0007	0.0007	0.0007	0.0013	0.0038	0.0007	0.0007	0.0007	0.0007
ıla	tive Cance	Cumulative Cancer Risk (DC)-	1.6E-07	1.2E-05	2.5E-08	2.5E-08	2.5E-08	2.6E-08	5.8E-08	2.5E-08	2.5E-08	2.5E-08	2.5E-08
1													

NR720 Standards Obtained From WDNR Online Excel Database
RCL - NR 720 Proposed Soil Residual Contaminant Level
DC - Direct Contact
Exceeds Non-Industrial Not-To-Exceed DC RCL
Exceeds NR 140 Groundwater Pathway Protection
NS - No Standard

- Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

< - Concentration below listed laboratory detection limi
NA - Not Analyzed

		Date>	9/15/2015
		Sample ID>	BH-23A
	Sample Dep	Sample Depth (Inches)>	4.0-4.5
	PID Detec	PID Detection Result>	
	Non- Industrial Not-	NR 140 Groundwater	
PAH Compounds (μg/kg)	To-Exceed DC RCL	Pathway Protection (DF=2)	
Acenaphthene	3,440,000	SN	<8.7
Acenaphthylene	SN	SN	< 7.8
Anthracene	17,200,000	197,744.2	< 9.1
Benzo(a)Anthracene	148	NS	< 6.1
Benzo(a)Pyrene	15	470	< 6.2
Benzo(b)Fluoranthene	148	480	< 8.7
Benzo(ghi)Perylene	NS	NS	< 6.7
Benzo(k)Fluoranthene	1,480	NS	< 9.7
Chrysene	14,800	145.1	< 8.1
Dibenzo(a,h)anthracene	15	NS	< 6.4
Fluoranthene	2,290,000	88,817.9	< 8.7
Fluorene	2,290,000	14,814.8	< 8.7
Indeno(1,2,3-cd)Pyrene	148	NS	9.9>
1-Methyl Naphthalene	15,600	NS	< 8.7
2-Methyl Naphthalene	229,000	NS	< 8.7
Naphthalene	5,150	658.7	< 8.7
Phenanthrene	NS	NS	< 8.7
Pyrene	1,720,000	54,472.5	< 8.7
Number of Ind	Number of Individual Exceedances (DC)>	ances (DC)>	0
Cumul	Cumulative Hazard Index (DC)>	ndex (DC)>	0.000
Cumi	Cumulative Cancer Risk (DC)>	Risk (DC)>	5.9E-07

DC - Direct Contact

Exceeds Non-Industrial Not-To-Exceed DC RCL Exceeds NR 140 Groundwater Pathway Protection NS - No Standard

NA - Not Analyzed

 $^{^{\}rm J}$ - Estimated concentration above the method detection limit and below the rep < - Concentration below listed laboratory detection limit

Summary of Groundwater Analytical Results Lac du Flambeau, Wisconsin Geoprobe Event **Tower Standard** Table 5a

	Samp	Sample Location>	tion>	BH-17	BH-22A	BH-25 @ 27'	BH-26 @ 27'	BH-30 @25'	BH-35B	BH-36 @ 39'	BH-37B @ 40'
			Date ->								
VOC Parameters											
Benzene	5	0.5	hg/1	115	10,500	< 0.40	133	< 0.40	< 0.40	9.1	< 0.40
Toluene	800	160	hg/1	9,650	47,500	< 0.39	451	< 0.39	< 0.39	< 0.39	< 0.39
Ethylbenzene	700	140	hg/1	2,150	4,080	< 0.39	301	18.4	6.1	< 0.39	< 0.39
Xylenes (mixed isomers)	2,000	400	hg/l	9,520	21,360	< 0.80	1,156	14.0	16.4	4.2	< 0.80
Methyl tert-Butyl Ether (MTBE)	09	12	hg/1	< 24.2	< 121	< 0.48	2.9^{J}	< 0.48	< 0.48	2.0	< 0.48
Trimethylbenzenes (mixed isomers)	480	96	hg/1	2,900	4,163	< 0.42	473	21.9	120.2	2.9	< 0.42
Naphthalene	100	10	hg/l	532	927	< 0.42	76.4	5.6	6.5	1.5	< 0.42
PAH Parameters			hg/1								
Acenaphthene			hg/l	NA	NA	NA	NA	NA	$0.045^{ m J}$	NA	NA
Acenaphthylene			hg/l	NA	NA	NA	NA	NA	$0.021^{ m J}$	NA	NA
Anthracene	3,000	009	hg/1	NA	NA	NA	NA	NA	< 0.0073	NA	NA
Benzo(a)Anthracene			hg/1	NA	NA	NA	NA	NA	< 0.0092	NA	NA
Benzo(a)Pyrene	0.2	0.02	hg/l	NA	NA	NA	NA	NA	< 0.0080	NA	NA
Benzo(b)Fluoranthene	0.2	0.02	hg/1	NA	NA	NA	NA	NA	> 0.0096	NA	NA
Benzo(ghi)Perylene			hg/1	NA	NA	NA	NA	NA	< 0.0063	NA	NA
Benzo(k)Fluoranthene			hg/1	NA	NA	NA	NA	NA	< 0.010	NA	NA
Chrysene	0.2	0.02	hg/l	NA	NA	NA	NA	NA	< 0.0076	NA	NA
Dibenzo(a,h)anthracene			hg/1	NA	NA	NA	NA	NA	< 0.010	NA	NA
Fluoranthene	400	80	hg/1	NA	NA	NA	NA	NA	< 0.017	NA	NA
Fluorene	400	80	hg/1	NA	NA	NA	NA	NA	$0.024^{ m J}$	NA	NA
Indeno(1,2,3-cd)Pyrene			hg/1	NA	NA	NA	NA	NA	< 0.0065	NA	NA
1-Methyl Naphthalene			hg/l	NA	NA	NA	NA	NA	11.7	NA	NA
2-Methyl Naphthalene			hg/1	NA	NA	NA	NA	NA	18.5	NA	NA
Naphthalene	100	10	hg/l	NA	NA	NA	NA	NA	6.0	NA	NA
Phenanthrene			hg/l	NA	NA	NA	NA	NA	$0.020^{ m J}$	NA	NA
Pyrene	250	20	hg/l	NA	NA	NA	NA	NA	< 0.014	NA	NA

PAL = NR140.10 Preventive Action Limits ES = NR140.10 Enforcement Standards Enforcement Standard exceeded

Italics Preventive Action Limit exceeded

NA = Not Analyzed

 ${\it NS}={\it Not\,Sampled}$ $^{\rm J}={\it Estimated\,value},$ concentration between the Limit of Detection and the Limit of Quantitation

Summary of Groundwater Analytical Results Lac du Flambeau, Wisconsin **Tower Standard** MW1-LDF Table 5b

			Date ->	Date -> 11/10/2015	4/26/2016
Detected VOC Parameters	ES	PAL	Units		
Benzene	2	9.0	/brl	< 0.50	< 0.50
Toluene	800	160	l/grl	< 0.50	< 0.50
Ethylbenzene	200	140	l/brl	< 0.50	< 0.50
Xylenes (mixed isomers)	2,000	400	l/Brl	< 1.0	< 1.0
Methyl tert-Butyl Ether (MTBE)	09	12	l/brl	< 0.17	< 0.17
Trimethylbenzenes (mixed isomers)	480	96	l/Brl	< 0.50	< 0.50
Naphthalene	100	10	l/grl	< 2.5	< 2.5
1,2-Dichloroethane	5	0.5	l/Brl	< 0.17	< 0.17
1,2-Dibromoethane	0.05	0.005	l/grl	< 0.18	< 0.18
Isopropylbenzene			l/gri	< 0.14	< 0.14
n-Butylbenzene			l/brl	< 0.50	< 0.50
n-Propylbenzene			l/gri	< 0.50	< 0.50
Inorganics					
Dissolved Lead	15	1.5	l/grl	< 3.0	< 3.0
Dissolved Cadmium	5	0.5	l/gri	1.2*	< 0.60
Dissolved Iron	300	150	hg/l	204	25.6*
Nitrate (as N)	10	2	mg/l	< 0.095	5.7
Sulfate	250	125	l/gw	21.2	14.5
Field Measurements					
Temperature			J.	50.55	42.33
Conductivity			mS/cm	547	1310
Hd				6.37	6.12
Dissolved Oxygen			l/gw	0.31	1.24
ORP			ΛW	181.3	239.6

Notes:

ES = NR140.10 Enforcement Standards

BOLD PAL = NR140.10 Preventive Action Limits

Preventive Action Limit exceeded Enforcement Standard exceeded

Italics

NA = Not Analyzed NS = Not Sampled

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Summary of Groundwater Analytical Results **Tower Standard** MW2-LDF Table 5c

Lac du Flambeau, Wisconsin

			Date ->	11/10/2015	4/26/2016
Detected VOC Parameters	ES	PAL	Units		
Benzene	5	0.5	µg/1	< 0.50	< 0.50
Toluene	800	160	µg/1	< 0.50	< 0.50
Ethylbenzene	100	140	hg/1	< 0.50	< 0.50
Xylenes (mixed isomers)	2,000	400	µg/1	< 1.0	< 1.0
Methyl tert-Butyl Ether (MTBE)	09	12	µg/1	< 0.17	< 0.17
Trimethylbenzenes (mixed isomers)	480	96	µg/1	< 0.50	< 0.50
Naphthalene	100	10	µg/1	< 2.5	< 2.5
1,2-Dichloroethane	5	0.5	µg/1	< 0.17	< 0.17
1,2-Dibromoethane	0.05	0.005	µg/1	< 0.18	< 0.18
Isopropylbenzene			µg/1	< 0.14	< 0.14
n-Butylbenzene			µg/1	< 0.50	< 0.50
n-Propylbenzene			µg/1	< 0.50	< 0.50
Inorganics					
Dissolved Lead	15	1.5	µg/1	3.2*	< 3.0
Dissolved Cadmium	5	0.5	µg/1	I.2*	< 0.60
Dissolved Iron	300	150	µg/1	16.3*	< 12.9
Nitrate (as N)	10	2	mg/l	0.48	0.56
Sulfate	250	125	mg/l	22.8	16.9
Field Measurements					
Temperature			$-\mathbf{F}$	53.11	44.35
Conductivity			hS/cm	2,035	1,395
Hd				7.24	7.22
Dissolved Oxygen			mg/l	2.13	2.94
ORP			мV	270.2	200.6

Notes:

ES = NR140.10 Enforcement Standards

BOLD PAL = NR140.10 Preventive Action Limits

Preventive Action Limit exceeded Enforcement Standard exceeded

NA = Not Analyzed

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation NS = Not Sampled

Italics

Summary of Groundwater Analytical Results Lac du Flambeau, Wisconsin **Tower Standard** MW3-LDF Table 5d

			Date ->	11/10/2015	4/26/2016
Detected VOC Parameters	ES	PAL	Units		
Benzene	5	0.5	hg/l	< 0.50	< 0.50
Toluene	800	160	hg/l	< 0.50	< 0.50
Ethylbenzene	100	140	µg/1	< 0.50	< 0.50
Xylenes (mixed isomers)	2,000	400	hg/1	< 1.0	< 1.0
Methyl tert-Butyl Ether (MTBE)	09	12	µg/1	< 0.17	< 0.17
Trimethylbenzenes (mixed isomers)	480	96	hg/l	< 0.50	< 0.50
Naphthalene	100	10	µg/1	< 2.5	< 2.5
1,2-Dichloroethane	5	0.5	hg/l	< 0.17	< 0.17
1,2-Dibromoethane	0.05	0.005	hg/l	< 0.18	< 0.18
Isopropylbenzene			µg/1	< 0.14	< 0.14
n-Butylbenzene			hg/1	< 0.50	< 0.50
n-Propylbenzene			hg/l	< 0.50	< 0.50
Inorganics					
Dissolved Lead	15	1.5	µg/l	< 3.0	< 3.0
Dissolved Cadmium	5	0.5	µg/l	I.4*	< 0.60
Dissolved Iron	300	150	hg/l	< 12.9	< 12.9
Nitrate (as N)	10	2	mg/l	0.35	0.87
Sulfate	250	125	mg/l	2.8*	2.6*
Field Measurements					
Temperature			٠Ŀ	52.43	41.73
Conductivity			µS/cm	139	41
Hď				6.72	6.93
Dissolved Oxygen			mg/l	7.78	11.17
ORP			mV	278.1	248.1

ES = NR140.10 Enforcement Standards

BOLD PAL = NR140.10 Preventive Action Limits

Preventive Action Limit exceeded Enforcement Standard exceeded

NS = Not Sampled

NA = Not Analyzed

Italics

Summary of Groundwater Analytical Results Table 5e MW16

Lac du Flambeau, Wisconsin **Tower Standard**

			Date ->	Date -> 11/11/2015	4/26/2016
Detected VOC Parameters	ES	PAL	Units		
Benzene	5	0.5	hg/1	6.3	0.84*
Toluene	800	160	hg/1	< 0.50	< 0.50
Ethylbenzene	700	140	hg/1	< 0.50	< 0.50
Xylenes (mixed isomers)	2,000	400	hg/1	2.7	< 1.0
Methyl tert-Butyl Ether (MTBE)	9	12	µg∕1	< 0.17	< 0.17
Trimethylbenzenes (mixed isomers)	480	96	hg/1	1.1	< 0.50
Naphthalene	100	10	hg/1	< 2.5	< 2.5
1,2-Dichloroethane	5	0.5	hg/1	< 0.50	< 0.50
1,2-Dibromoethane	0.05	0.005	hg/1	< 0.18	< 0.18
Isopropylbenzene			hg/l	< 0.14	< 0.14
n-Butylbenzene			µg/1	< 0.50	< 0.50
n-Propylbenzene			hg/l	< 0.50	< 0.50
Inorganics					
Dissolved Lead	15	1.5	hg/1	< 3.0	< 3.0
Dissolved Cadmium	5	0.5	hg/l	< 0.60	< 0.60
Dissolved Iron	300	150	hg/1	15,400	29,400
Nitrate (as N)	10	2	mg/l	< 0.095	< 0.095
Sulfate	250	125	mg/l	< 10.0	10.9*
Field Measurements					
Temperature			οF	52.03	43.9
Conductivity			hS/cm	472	237
Hd				6.63	6.68
Dissolved Oxygen			mg/l	0.15	0.13
ORP			mV	1.5	5.2

Notes:

ES = NR140.10 Enforcement Standards

BOLD PAL = NR140.10 Preventive Action Limits

Preventive Action Limit exceeded Enforcement Standard exceeded

NA = Not Analyzed

NS = Not Sampled

Italics

Table 5f Summary of Groundwater Analytical Results MW16@37-42 Tower Standard Lac du Flambeau, Wisconsin

			Date ->	Date -> 11/17/2016	4/26/2016
Detected VOC Parameters	ES	PAL	Units		
Benzene	5	0.5	hg/1	1,340	1,030
Toluene	800	160	hg/1	22.1	15.2
Ethylbenzene	100	140	hg/1	6.09	32.3
Xylenes (mixed isomers)	2,000	400	hg/1	1,520.2	1,322.1
Methyl tert-Butyl Ether (MTBE)	60	12	hg/l	< 1.7	< 1.7
Trimethylbenzenes (mixed isomers)	480	96	hg/1	371.1	287.0
Naphthalene	100	10	hg/1	84.7	52.6
1,2-Dichloroethane	5	0.5	hg/1	< 1.7	< 1.7
1,2-Dibromoethane	0.05	0.005	hg/l	< 1.8	< 1.8
Isopropylbenzene			hg/l	17.0	9.3*
n-Butylbenzene			hg/1	< 5.0	< 5.0
n-Propylbenzene			hg/l	45.5	26.7
Inorganics					
Dissolved Lead	15	1.5	hg/1	4.5*	< 3.0
Dissolved Cadmium	5	0.5	hg/l	09'0>	< 0.60
Dissolved Iron	300	150	hg/1	5,920	9,020
Nitrate (as N)	10	2	mg/l	> 0.095	< 0.095
Sulfate	250	125	mg/l	< 2.0	2.3*
Field Measurements					
Temperature			٥Ŀ	50.45	48.13
Conductivity			hS/cm	843	745
Hd				7.31	7.45
Dissolved Oxygen			mg/l	0.21	90.0
ORP			mV	-378	-81.3

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits
Enforcement Standard exceeded Bold

Enforcement Standard exceeded Preventive Action Limit exceeded

Italics

NA = Not Analyzed

 $\label{eq:NS} NS = Not \ Sampled \\ * = Estimated \ value, concentration \ between \ the \ Limit \ of \ Detection \ and \ the \ Limit \ of \ Quantitation$

Summary of Groundwater Analytical Results Table 5g MW17

Lac du Flambeau, Wisconsin **Tower Standard**

			Date ->	Date -> 11/17/2016	4/26/2016
Detected VOC Parameters	ES	PAL	Units		
Benzene	5	0.5	l/gu	1.0	< 0.50
Toluene	800	160	l/grl	2.3	< 0.50
Ethylbenzene	100	140	l/grl	0.51*	< 0.50
Xylenes (mixed isomers)	2,000	400	hg/1	2.3	< 1.0
Methyl tert-Butyl Ether (MTBE)	09	12	hg/1	< 0.17	< 0.17
Trimethylbenzenes (mixed isomers)	480	96	l/grl	*09.0	< 0.50
Naphthalene	100	10	hg/1	< 2.5	< 2.5
1,2-Dichloroethane	5	0.5	hg/1	< 1.7	< 0.17
1,2-Dibromoethane	0.05	0.005	hg/1	< 1.8	< 0.18
Isopropylbenzene			hg/1	< 0.14	< 0.14
n-Butylbenzene			hg/1	< 0.50	< 0.50
n-Propylbenzene			hg/1	< 0.50	< 0.50
Inorganics					
Dissolved Lead	15	1.5	µg/1	< 3.0	< 3.0
Dissolved Cadmium	5	0.5	hg/1	< 0.60	< 0.60
Dissolved Iron	300	150	hg/1	1,060	1,390
Nitrate (as N)	10	2	mg/l	< 0.095	1.9
Sulfate	250	125	mg/l	6.1	24.2
Field Measurements					
Temperature			$^{\circ}$	53.06	42.94
Conductivity			m2/sm	508	66 <i>T</i>
Hď				6.26	6.44
Dissolved Oxygen			mg/l	1.55	3.62
ORP			Λw	83.0	182.8

Notes:

ES = NR140.10 Enforcement Standards

BOLD PAL = NR140.10 Preventive Action Limits Enforcement Standard exceeded

Preventive Action Limit exceeded

Italics

NA = Not Analyzed

NS = Not Sampled

Table 5h Summary of Groundwater Analytical Results MW17@31-36 Tower Standard Lac du Flambeau, Wisconsin

			Date ->	Date -> 11/17/2016	4/26/2016
Detected VOC Parameters	ES	PAL	Units		
Benzene	5	0.5	hg/1	< 0.50	< 0.50
Toluene	800	160	hg/1	< 0.50	< 0.50
Ethylbenzene	100	140	l/grl	< 0.50	< 0.50
Xylenes (mixed isomers)	2,000	400	l/gu	< 1.0	< 1.0
Methyl tert-Butyl Ether (MTBE)	09	12	hg/l	< 0.17	< 0.17
Trimethylbenzenes (mixed isomers)	480	96	l/grl	< 0.50	< 0.50
Naphthalene	100	10	hg/1	< 2.5	< 2.5
1,2-Dichloroethane	5	0.5	hg/1	< 1.7	< 1.7
1,2-Dibromoethane	0.05	0.005	hg/1	< 1.8	< 1.8
Isopropylbenzene			hg/l	< 0.14	< 0.14
n-Butylbenzene			hg/1	< 0.50	< 0.50
n-Propylbenzene			hg/l	< 0.50	< 0.50
Inorganics					
Dissolved Lead	15	1.5	hg/1	< 3.0	< 3.0
Dissolved Cadmium	5	0.5	hg/l	09.0 >	< 0.60
Dissolved Iron	300	150	hg/1	4,980	448
Nitrate (as N)	10	2	mg/l	89.0	< 0.095
Sulfate	250	125	mg/l	20.9	4.2
Field Measurements					
Temperature			$_{ m oE}$	50.78	46.26
Conductivity			ms/srl	069	563
Hd				7.08	7.07
Dissolved Oxygen			mg/l	3.00	1.10
ORP			mV	-282.4	200.7

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits
Enforcement Standard exceeded Bold

Enforcement Standard exceeded Preventive Action Limit exceeded

Italics

NA = Not Analyzed

NS = Not Sampled

Summary of Groundwater Analytical Results Table 5i MW18

Lac du Flambeau, Wisconsin **Tower Standard**

			Date ->	Date -> 11/17/2016	4/26/2016
Detected VOC Parameters	ES	PAL	Units		
Benzene	5	0.5	hg/1	< 0.50	< 0.50
Toluene	800	160	hg/1	< 0.50	< 0.50
Ethylbenzene	700	140	hg/1	< 0.50	< 0.50
Xylenes (mixed isomers)	2,000	400	hg/1	< 1.0	< 1.0
Methyl tert-Butyl Ether (MTBE)	09	12	hg/l	< 0.17	< 0.17
Trimethylbenzenes (mixed isomers)	480	96	hg/l	< 0.50	< 0.50
Naphthalene	100	10	hg/1	< 2.5	< 2.5
1,2-Dichloroethane	5	0.5	hg/1	< 1.7	< 1.7
1,2-Dibromoethane	0.05	0.005	hg/1	< 1.8	< 1.8
Isopropylbenzene			hg/1	< 0.14	< 0.14
n-Butylbenzene			hg/1	< 0.50	< 0.50
n-Propylbenzene			hg/l	< 0.50	< 0.50
Inorganics					
Dissolved Lead	15	1.5	hg/1	< 3.0	< 3.0
Dissolved Cadmium	5	0.5	hg/l	< 0.60	< 0.60
Dissolved Iron	300	150	hg/1	< 12.9	< 12.9
Nitrate (as N)	10	2	mg/l	< 0.095	< 0.095
Sulfate	250	125	mg/l	13.5	22.2
Field Measurements					
Temperature			οF	51.8	41.54
Conductivity			hS/cm	609	337
Hd				6.46	69.9
Dissolved Oxygen			mg/l	3.73	2.5
ORP			Λm	229.6	261.9

Notes:

ES = NR140.10 Enforcement Standards

BOLD PAL = NR140.10 Preventive Action Limits Enforcement Standard exceeded

Preventive Action Limit exceeded NA = Not Analyzed

NS = Not Sampled

Table 5j Summary of Groundwater Analytical Results MW18@35-40 Tower Standard Lac du Flambeau, Wisconsin

			Date ->	Date -> 11/17/2016	4/26/2016
Detected VOC Parameters	ES	PAL	Units		
Benzene	5	0.5	hg/1	< 0.50	< 0.50
Toluene	800	160	hg/1	< 0.50	< 0.50
Ethylbenzene	100	140	hg/1	< 0.50	< 0.50
Xylenes (mixed isomers)	2,000	400	hg/1	< 1.0	< 1.0
Methyl tert-Butyl Ether (MTBE)	09	12	µg/1	< 0.17	< 0.17
Trimethylbenzenes (mixed isomers)	480	96	hg/l	< 0.50	< 0.50
Naphthalene	100	10	hg/1	< 2.5	< 2.5
1,2-Dichloroethane	5	0.5	hg/1	< 1.7	< 1.7
1,2-Dibromoethane	0.05	0.005	hg/1	< 1.8	< 1.8
Isopropylbenzene			hg/l	< 0.14	< 0.14
n-Butylbenzene			hg/1	< 0.50	< 0.50
n-Propylbenzene			hg/l	< 0.50	< 0.50
Inorganics					
Dissolved Lead	15	1.5	µg/1	< 3.0	< 0.30
Dissolved Cadmium	5	0.5	µg∕1	0.63*	< 0.60
Dissolved Iron	300	150	µg/1	247	< 12.9
Nitrate (as N)	10	2	mg/l	< 0.095	< 0.095
Sulfate	250	125	mg/l	9.1	10.0
Field Measurements					
Temperature			٥Ŀ	52.36	46.04
Conductivity			μS/cm	439	377
Hď				7.13	6.78
Dissolved Oxygen			mg/l	5.98	2.18
ORP			mV	93.1	249.1

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits
Enforcement Standard exceeded Bold

Preventive Action Limit exceeded NA = Not Analyzed

ed *Italics*

Summary of Groundwater Analytical Results Lac du Flambeau, Wisconsin **Tower Standard Table 5k** MW19

			Date ->	11/11/2015	4/26/2016
Detected VOC Parameters	ES	PAL	Units		
Benzene	5	0.5	hg/1	< 0.50	< 0.50
Toluene	800	160	µg/1	< 0.50	< 0.50
Ethylbenzene	100	140	hg/1	< 0.50	< 0.50
Xylenes (mixed isomers)	2,000	400	hg/1	< 1.0	< 1.0
Methyl tert-Butyl Ether (MTBE)	09	12	hg/1	< 0.17	< 0.17
Trimethylbenzenes (mixed isomers)	480	96	µg/1	< 0.50	< 0.50
Naphthalene	100	10	µg/1	< 2.5	< 2.5
1,2-Dichloroethane	5	0.5	hg/1	< 0.17	< 0.17
1,2-Dibromoethane	0.05	0.005	hg/1	< 0.18	< 0.18
Isopropylbenzene			µg/1	< 0.14	< 0.14
n-Butylbenzene			hg/1	< 0.50	< 0.50
n-Propylbenzene			hg/l	< 0.50	< 0.50
Inorganics					
Dissolved Lead	15	1.5	µg/1	3.4*	< 3.0
Dissolved Cadmium	5	0.5	µg/1	0.90*	< 0.60
Dissolved Iron	300	150	µg/1	704	139
Nitrate (as N)	10	2	mg/l	< 0.095	0.42
Sulfate	250	125	mg/l	J.0	7.1
Field Measurements					
Temperature			٥F	52.96	44.86
Conductivity			μS/cm	470	232
Hď				6.32	6.67
Dissolved Oxygen			mg/l	0.52	1.46
ORP			mV	117.9	149.0

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

Preventive Action Limit exceeded Enforcement Standard exceeded

Italics

NA = Not Analyzed

^{* =} Estimated value, concentration between the Limit of Detection and the Limit of Quantitation NS = Not Sampled

Table 51
Summary of Groundwater Analytical Results
INW19@35-40
Tower Standard
Lac du Flambeau, Wisconsin

			Date ->	Date -> 11/11/2015	4/26/2016
Detected VOC Parameters	ES	PAL	Units		
Benzene	5	0.5	hg/1	117	298
Toluene	800	160	hg/1	39.1	189
Ethylbenzene	100	140	hg/1	395	1,260
Xylenes (mixed isomers)	2,000	400	hg/1	1888	3,514
Methyl tert-Butyl Ether (MTBE)	09	12	hg/1	< 0.87	< 1.7
Trimethylbenzenes (mixed isomers)	480	96	hg/1	165.8	918
Naphthalene	100	10	hg/1	75.1	207
1,2-Dichloroethane	5	0.5	hg/1	< 0.84	< 1.7
1,2-Dibromoethane	0.05	0.005	hg/1	< 0.89	< 1.8
Isopropylbenzene			hg/1	< 0.14	29.8
n-Butylbenzene			hg/1	3.7*	< 5.0
n-Propylbenzene			hg/l	35.8	99.3
Inorganics					
Dissolved Lead	15	1.5	hg/1	< 3.0	< 3.0
Dissolved Cadmium	5	0.5	hg/1	I.I*	< 0.60
Dissolved Iron	300	150	hg/1	3,820	19,500
Nitrate (as N)	10	2	mg/l	< 0.095	< 0.095
Sulfate	250	125	mg/l	10.8*	< 10.0
Field Measurements					
Temperature			οF	52.4	48.75
Conductivity			hS/cm	326	341
Hd				7.41	6.77
Dissolved Oxygen			mg/l	5.58	0.1
ORP			Λm	-15.3	-5.0

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits
Enforcement Standard exceeded BG

Preventive Action Limit exceeded

BOLD Italics

NA = Not Analyzed NS = Not Sampled

Table 5m
Summary of Groundwater Analytical Results
MW20

Tower Standard Lac du Flambeau, Wisconsin

			Date ->	Date -> 11/11/2015	4/26/2016
Detected VOC Parameters	ES	PAL	Units		
Benzene	5	0.5	hg/1	10,100	5,320
Toluene	800	160	hg/l	35,800	27,500
Ethylbenzene	700	140	hg/l	3,180	4,040
Xylenes (mixed isomers)	2,000	400	µg/1	19,230	22,080
Methyl tert-Butyl Ether (MTBE)	09	12	µg/l	< 34.8	< 17.4
Trimethylbenzenes (mixed isomers)	480	96	hg/l	1,939	2,792
Naphthalene	100	10	hg/l	654 *	573
1,2-Dichloroethane	5	0.5	hg/1	< 100	< 16.8
1,2-Dibromoethane	0.05	0.005	hg/1	< 35.6	< 17.8
Isopropylbenzene			hg/l	64.3*	65.1*
n-Butylbenzene			hg/1	< 100	< 50
n-Propylbenzene			hg/1	*261	223
Inorganics					
Dissolved Lead	15	1.5	hg/l	Z.0Z	*9'8
Dissolved Cadmium	5	0.5	hg/l	I.7*	< 0.60
Dissolved Iron	300	150	hg/l	1,440	12,500
Nitrate (as N)	10	2	mg/l	< 0.095	< 0.095
Sulfate	250	125	mg/l	< 10.0	< 10.0
Field Measurements					
Temperature			٥Ŀ	58.83	48.49
Conductivity			µS/cm	1,091	870
Hd				6.42	6.67
Dissolved Oxygen			mg/l	4.33	0.39
ORP			Λm	103.1	29.2

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits
Enforcement Standard exceeded Bold

Enforcement Standard exceeded Preventive Action Limit exceeded

NA = Not Analyzed

INS = Not Sampled

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Italics

Summary of Groundwater Analytical Results Lac du Flambeau, Wisconsin **Tower Standard** MW20@20-25 Table 5n

			Date ->	Date -> 11/11/2015	4/26/2016
Detected VOC Parameters	ES	PAL	Units		
Benzene	5	0.5	hg/1	17,600	17,700
Toluene	800	160	hg/1	21,600	41,800
Ethylbenzene	I00	140	hg/1	2,640	2,950
Xylenes (mixed isomers)	2,000	400	hg/1	14,060	17,690
Methyl tert-Butyl Ether (MTBE)	09	12	hg/1	< 21.8	Z : 69 >
Trimethylbenzenes (mixed isomers)	480	96	hg/1	1,793	1,910
Naphthalene	100	10	hg/1	381*	< 1,000
1,2-Dichloroethane	5	0.5	hg/l	< 21.0	< 62.7
1,2-Dibromoethane	0.05	0.005	hg/l	64.0*	< 71.1
Isopropylbenzene			µg/1	54.4*	< 57.3
n-Butylbenzene			µg/1	< 62.5	< 200
n-Propylbenzene			hg/1	168	< 200
Inorganics					
Dissolved Lead	15	1.5	hg/1	31.5	37.1
Dissolved Cadmium	5	0.5	hg/1	*98.0	< 0.60
Dissolved Iron	300	150	hg/1	6,130	5,520
Nitrate (as N)	10	2	mg/l	< 0.095	< 0.095
Sulfate	250	125	mg/l	< 10.0	< 10.0
Field Measurements					
Temperature			ь	55.64	49.87
Conductivity			µS/cm	1,010	845
Hd				6.25	6.43
Dissolved Oxygen			mg/l	3.83	0.1
ORP			mV	88.2	75.9

ES = NR140.10 Enforcement Standards

BOLD PAL = NR140.10 Preventive Action Limits

Preventive Action Limit exceeded Enforcement Standard exceeded

Italics

NA = Not Analyzed

P:\0900-0999\0903-Tower\Reports\Current Conditions\903CCt5.xls

Summary of Groundwater Analytical Results Lac du Flambeau, Wisconsin **Tower Standard** Table 50 **MW21**

			Date ->	Date -> 11/11/2015	4/26/2016
Detected VOC Parameters	ES	PAL	Units		
Benzene	5	9.0	l/bd	632	457
Toluene	800	160	l/gu	2,510	4,120
Ethylbenzene	700	140	l/gu	2,600	1,600
Xylenes (mixed isomers)	2,000	400	l/gu	8,570	9,570
Methyl tert-Butyl Ether (MTBE)	60	12	/br	< 4.4	< 8.7
Trimethylbenzenes (mixed isomers)	480	96	/brl	2,435	3,379
Naphthalene	100	10	l/bd	640	630
1,2-Dichloroethane	5	9.0	l/bd	< 4.2	< 8.4
1,2-Dibromoethane	0.05	0.005	l/brl	< 4.4	< 8.9
Isopropylbenzene			l/grl	66.1	52.5
n-Butylbenzene			/bd	46.3	< 25
n-Propylbenzene			l/gu	228	181
Inorganics					
Dissolved Lead	15	1.5	l/bd	< 3.0	7.7*
Dissolved Cadmium	2	9.0	l/gu	.69%	< 0.60
Dissolved Iron	300	150	l/gu	27,900	16,900
Nitrate (as N)	10	2	l/gm	< 0.095	< 0.095
Sulfate	250	125	l/gm	< 10.0	11.0*
Field Measurements					
Temperature			J _o	57.29	46.73
Conductivity			nS/cm	470	470
Н				6.61	6.56
Dissolved Oxygen			mg/l	1.76	0.48
ORP			mV	-1.7	28.6

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits Enforcement Standard exceeded

BOLD Italics

> Preventive Action Limit exceeded NA = Not Analyzed

NS = Not Sampled

Summary of Groundwater Analytical Results Lac du Flambeau, Wisconsin **Tower Standard** MW21@35-40 Table 5p

			Date ->	Date -> 11/11/2015	4/26/2016
Detected VOC Parameters	ES	PAL	Units		
Benzene	5	0.5	hg/1	1,110	35.5
Toluene	800	160	hg/1	989	2.2
Ethylbenzene	100	140	hg/1	274	< 0.50
Xylenes (mixed isomers)	2,000	400	hg/1	1,406	27.9
Methyl tert-Butyl Ether (MTBE)	09	12	hg/1	< 1.7	0.20*
Trimethylbenzenes (mixed isomers)	480	96	µg/1	339.5	8.3
Naphthalene	100	10	µg/1	63.1	2.9*
1,2-Dichloroethane	5	0.5	hg/1	< 1.7	< 0.24
1,2-Dibromoethane	0.05	0.005	hg/1	< 1.8	< 0.18
Isopropylbenzene			hg/1	*0.6	0.27*
n-Butylbenzene			hg/1	14.6	< 0.50
n-Propylbenzene			µg/1	31.4	1.3
Inorganics					
Dissolved Lead	15	1.5	hg/1	< 3.0	< 3.0
Dissolved Cadmium	5	0.5	hg/1	< 0.60	< 0.60
Dissolved Iron	300	150	hg/l	44,600	66,600
Nitrate (as N)	10	2	mg/l	< 0.095	< 0.095
Sulfate	250	125	mg/l	< 2.0	< 10.0
Field Measurements					
Temperature			٥Ŀ	53.15	51.16
Conductivity			hS/cm	1,615	1,999
Hď				6.5	6.6
Dissolved Oxygen			mg/l	3.82	0.24
ORP			Λm	29.2	-5.8

Notes:

ES = NR140.10 Enforcement Standards

BOLD PAL = NR140.10 Preventive Action Limits Enforcement Standard exceeded

Preventive Action Limit exceeded NA = Not Analyzed

Italics

Summary of Groundwater Analytical Results Table 5q **MW22**

Lac du Flambeau, Wisconsin **Tower Standard**

			Date ->	Date -> 11/17/2016	4/26/2016
Detected VOC Parameters	ES	PAL	Units		
Benzene	5	0.5	µg/1	< 0.50	< 0.50
Toluene	800	160	hg/1	2.5	1.1
Ethylbenzene	700	140	hg/1	11.9	8.8
Xylenes (mixed isomers)	2,000	400	hg/1	55.1	42.0
Methyl tert-Butyl Ether (MTBE)	09	12	µg∕1	< 0.17	< 0.17
Trimethylbenzenes (mixed isomers)	480	96	µg∕1	80.2	67.9
Naphthalene	100	10	µg/1	2.3	5.8
1,2-Dichloroethane	5	0.5	hg/l	< 1.7	< 1.7
1,2-Dibromoethane	0.05	0.005	µg/1	< 1.8	< 1.8
Isopropylbenzene			µg/l	1.0	0.98*
n-Butylbenzene			µg/1	< 0.50	< 0.50
n-Propylbenzene			µg∕1	2.3	2.6
Inorganics					
Dissolved Lead	15	1.5	µg∕1	< 3.0	< 3.0
Dissolved Cadmium	5	0.5	µg/1	09.0>	< 0.60
Dissolved Iron	300	150	µg/1	63.4*	183
Nitrate (as N)	10	2	mg/l	3.9	23.8
Sulfate	250	125	mg/l	9.6	10.1
Field Measurements					
Temperature			οF	54.12	43.71
Conductivity			hS/cm	204	450
Hd				6.46	6.45
Dissolved Oxygen			mg/l	1.02	6.28
ORP			MV	229.4	221.7

Notes:

ES = NR140.10 Enforcement Standards

BOLD PAL = NR140.10 Preventive Action Limits Enforcement Standard exceeded

Preventive Action Limit exceeded

Italics

NA = Not Analyzed

NS = Not Sampled

Summary of Groundwater Analytical Results Lac du Flambeau, Wisconsin **Tower Standard** MW22@35-40 Table 5r

			Date ->	11/17/2016	4/26/2016
Detected VOC Parameters	ES	PAL	Units		
Benzene	5	0.5	µg/1	< 0.50	< 0.50
Toluene	800	160	µg/1	< 0.50	< 0.50
Ethylbenzene	100	140	hg/1	< 0.50	< 0.50
Xylenes (mixed isomers)	2,000	400	µg/1	0.75*	< 1.0
Methyl tert-Butyl Ether (MTBE)	09	12	µg/1	< 0.17	< 0.17
Trimethylbenzenes (mixed isomers)	480	96	µg/1	< 0.50	< 0.50
Naphthalene	100	10	µg/1	< 2.5	< 2.5
1,2-Dichloroethane	5	0.5	µg/1	< 1.7	< 1.7
1,2-Dibromoethane	0.05	0.005	µg/1	< 1.8	< 1.8
Isopropylbenzene			hg/1	< 0.14	< 0.14
n-Butylbenzene			µg/1	< 0.50	< 0.50
n-Propylbenzene			µg/1	< 0.50	< 0.50
Inorganics					
Dissolved Lead	15	1.5	hg/1	3.7*	< 3.0
Dissolved Cadmium	5	0.5	µg/1	< 0.60	< 0.60
Dissolved Iron	300	150	µg/1	< 12.9	< 12.9
Nitrate (as N)	10	2	mg/l	0.38	0.24*
Sulfate	250	125	mg/l	29.3	21.3
Field Measurements					
Temperature			Ь	52.9	45.86
Conductivity			ms/sm	388	1,017
Hd				7.83	7.51
Dissolved Oxygen			mg/l	3.55	4.66
ORP			Λw	249.5	239.1

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

Preventive Action Limit exceeded Enforcement Standard exceeded

BOLD Italics

NA = Not Analyzed

NS = Not Sampled

Table 6a Summary of Vapor Analytical Results Tower Standard 14267 State Highway 70 West Lac du Flambeau, WI

		16TSSV01
Small Commercial Building (Attenuation Factor 0.03)	0.03)	Sub-Slab
Chemical (ppbV)	SS-VRSL	4/1/2016
Acetone		24.6
Benzene	160	0.49
2-Butanone (MEK)		3.3
Carbon disulfide		0.57
Cyclohexane		2.6
Dichlorodifluoromethane	2,900	1.3
Ethylbenzene	370	1.1
4-Ethyltoluene		1.0
n-Heptane		1.5
n-Hexane		2.2
Propylene		0.4
Methylene Chloride	25,000	< 1.8
Tetrachloroethene	006	2.6
Toluene	190,000	4.2
Trichlorofluoromethane (Halocarbon 11)		< 0.36
1,2,4-Trimethylbenzene	210	1.6
1,3,5-Trimethylbenzene		6.0
Xylene (mix)	3,300	5.6

Sub-Slab Vapor Risk Screening Levels Based on December 2015 National Screening Level Summary Table

Exceeds Sub-Slab Vapor Risk Screening Level Bold

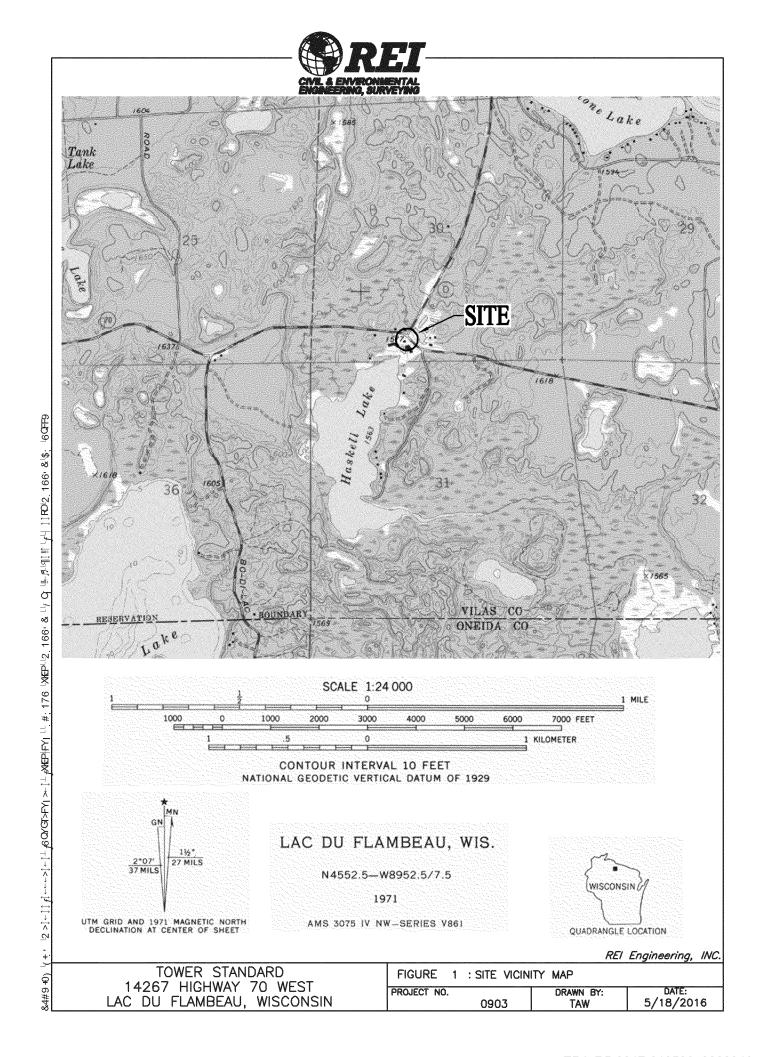
^{* -} Estimated concentration at or above the Limit of Detection and below the Limit of Quantification

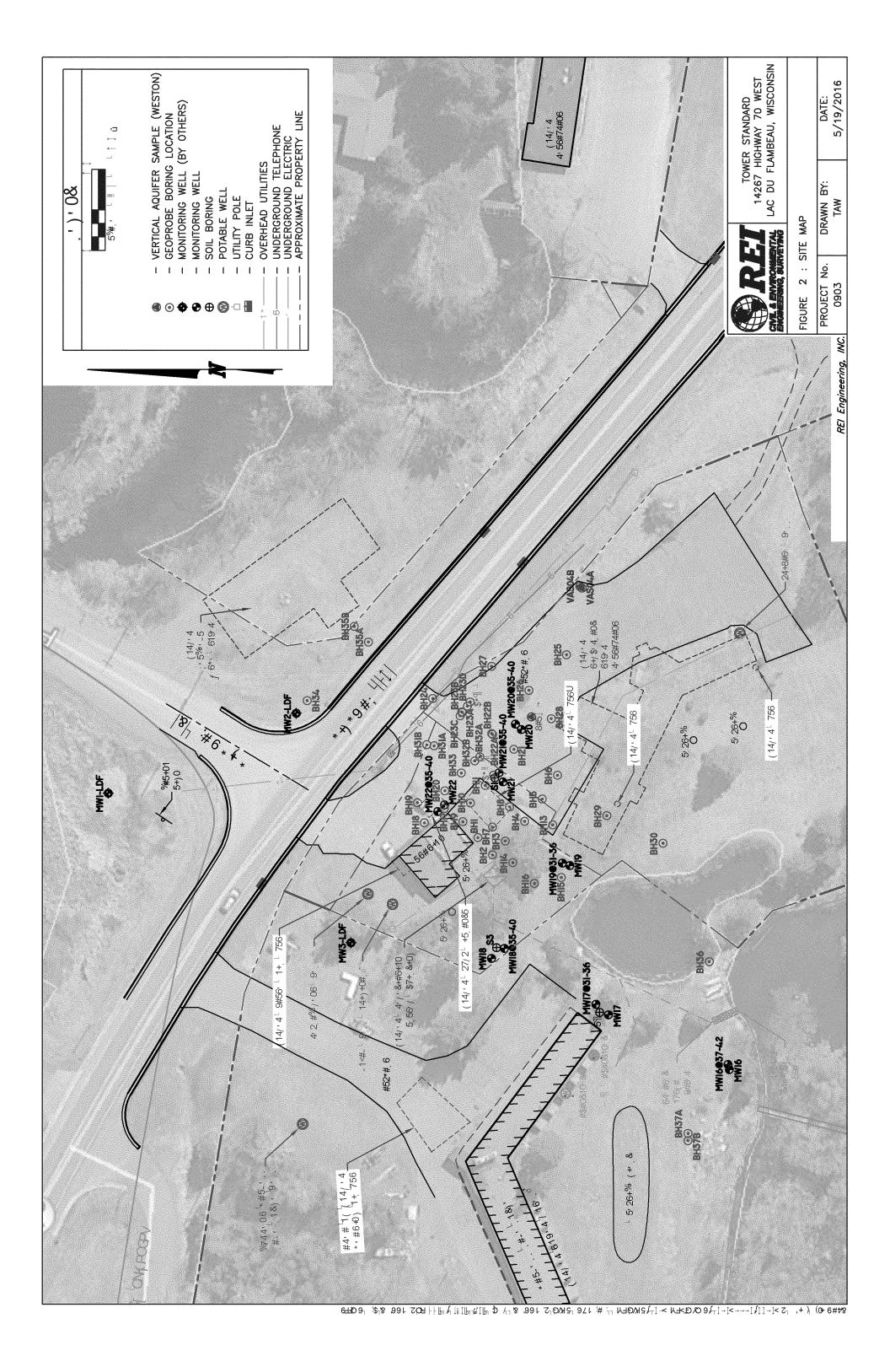
Table 6b
Summary of Vapor Analytical Results
Tower Standard
14267 State Highway 70 West
Lac du Flambeau, WI

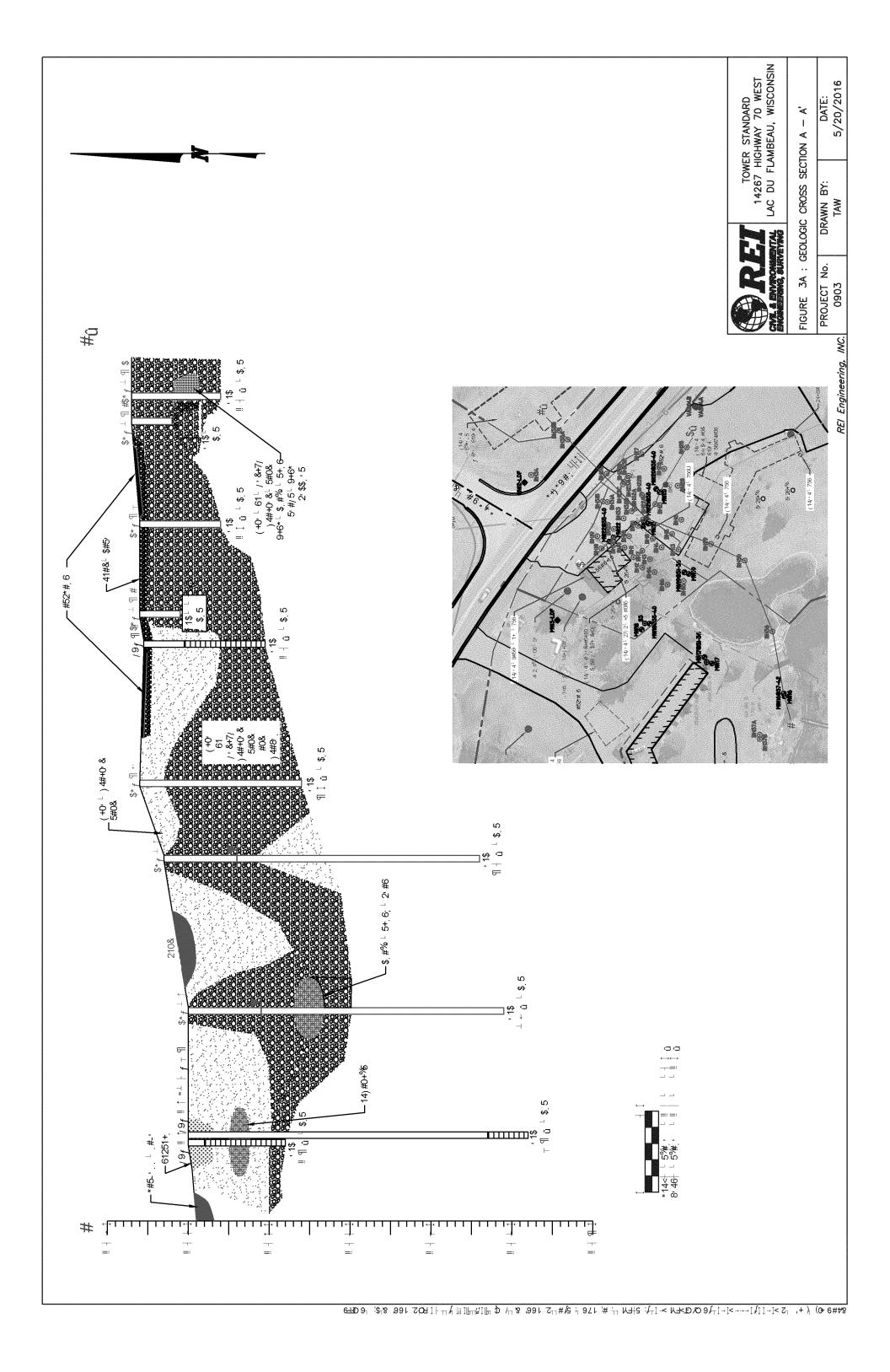
		16TSAA02
Small Commercial Building (Attenuation Factor 0.03)	0.03)	Indoor Air
Chemical (ppbV)	Indoor Air VAL	3/31/2016
Acetone		29.2
Benzene	160	0.19
2-Butanone (MEK)		1.9
Carbon disulfide		< 0.34
Cyclohexane		9.0
Dichlorodifluoromethane	2,900	< 1.7
Ethylbenzene	370	< 0.34
4-Ethyltoluene		0.52
n-Heptane		< 0.34
n-Hexane		26.7
Propylene		0.74
Methylene Chloride	25,000	205
Tetrachloroethene	006	< 0.17
Toluene	190,000	3.4
Trichlorofluoromethane (Halocarbon 11)		< 0.34
1,2,4-Trimethylbenzene	210	0.51
1,3,5-Trimethylbenzene		0.52
Xylene (mix)	3,300	0.84

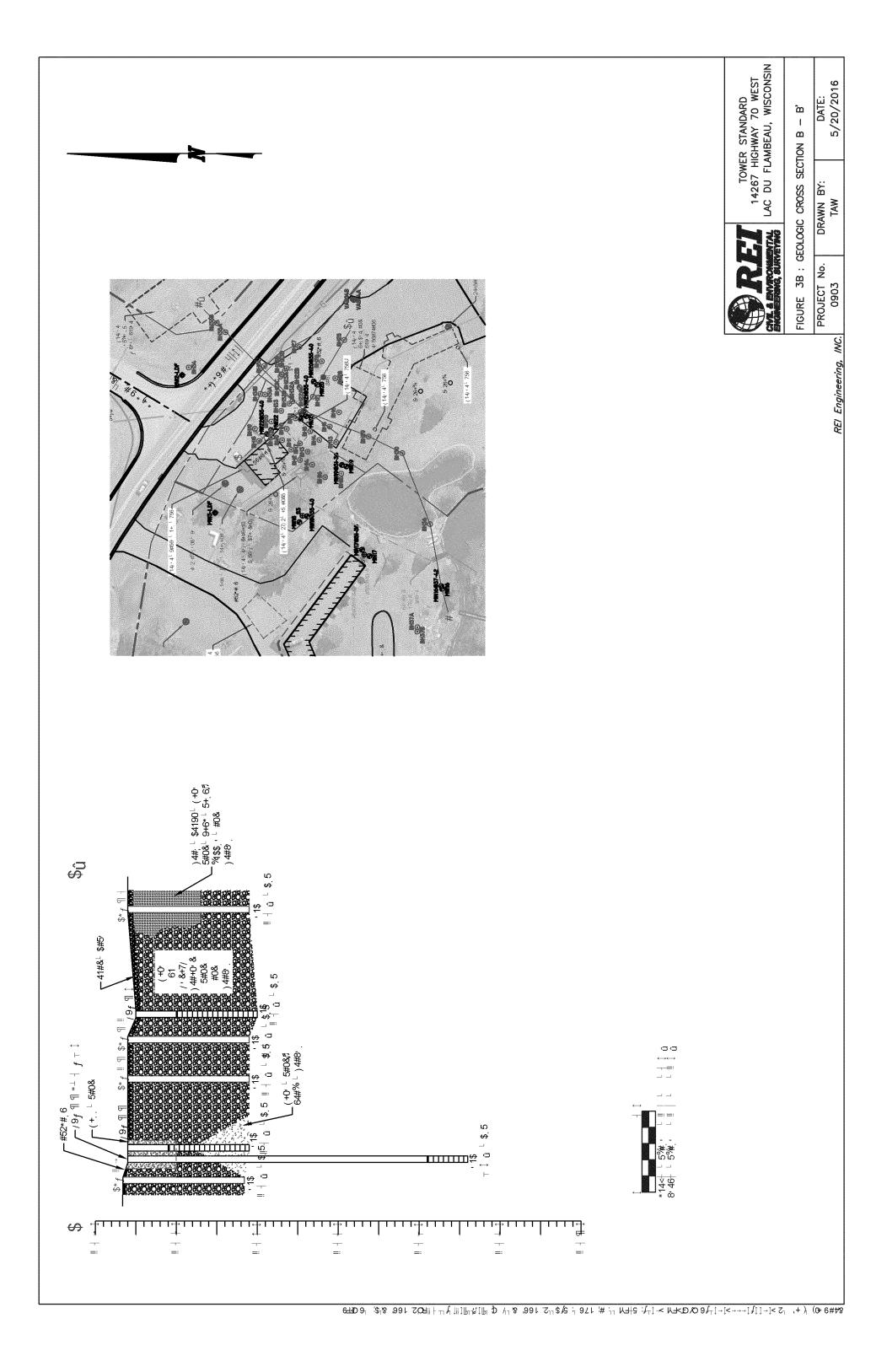
Vapor Action Levels Based on December 2015 National Screening Level Summary Table Fyroods Suh-Slah Vanor Risk Screening Level

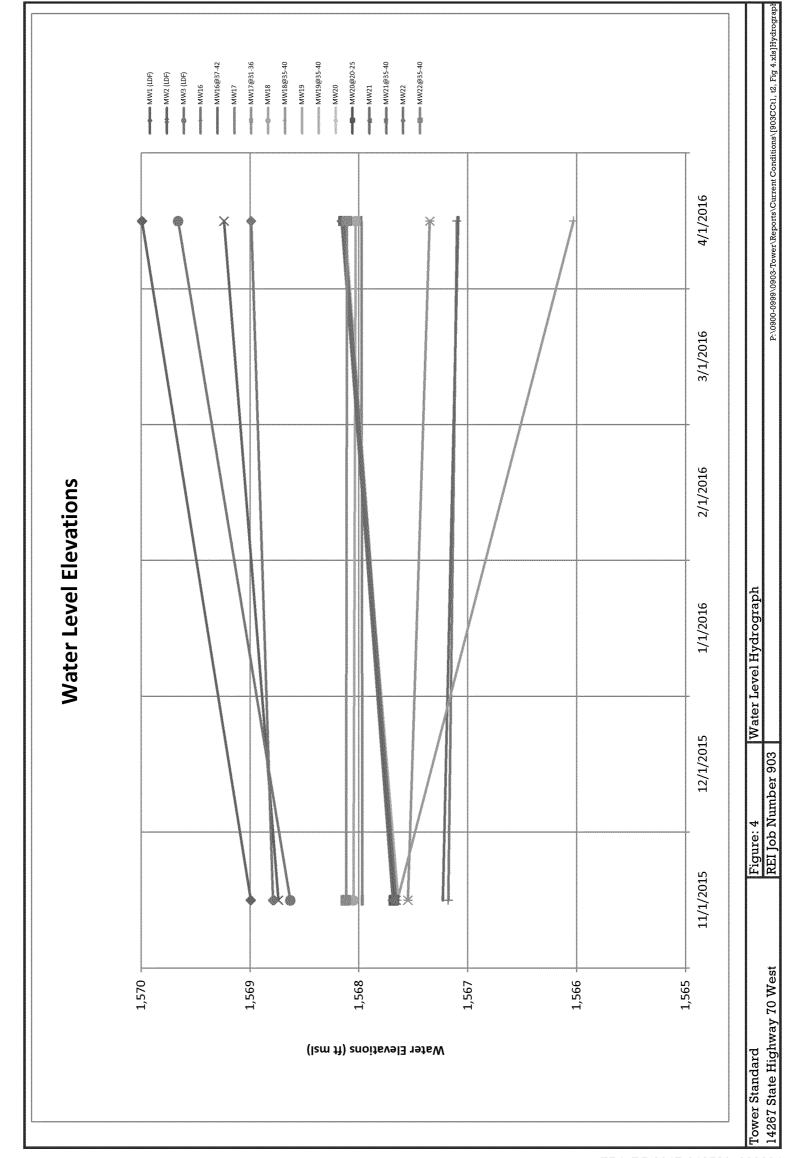
Exceeds Sub-Slab Vapor Risk Screening Level **Bold*** - Estimated concentration at the Limit of Detection and below the Limit of Quantification

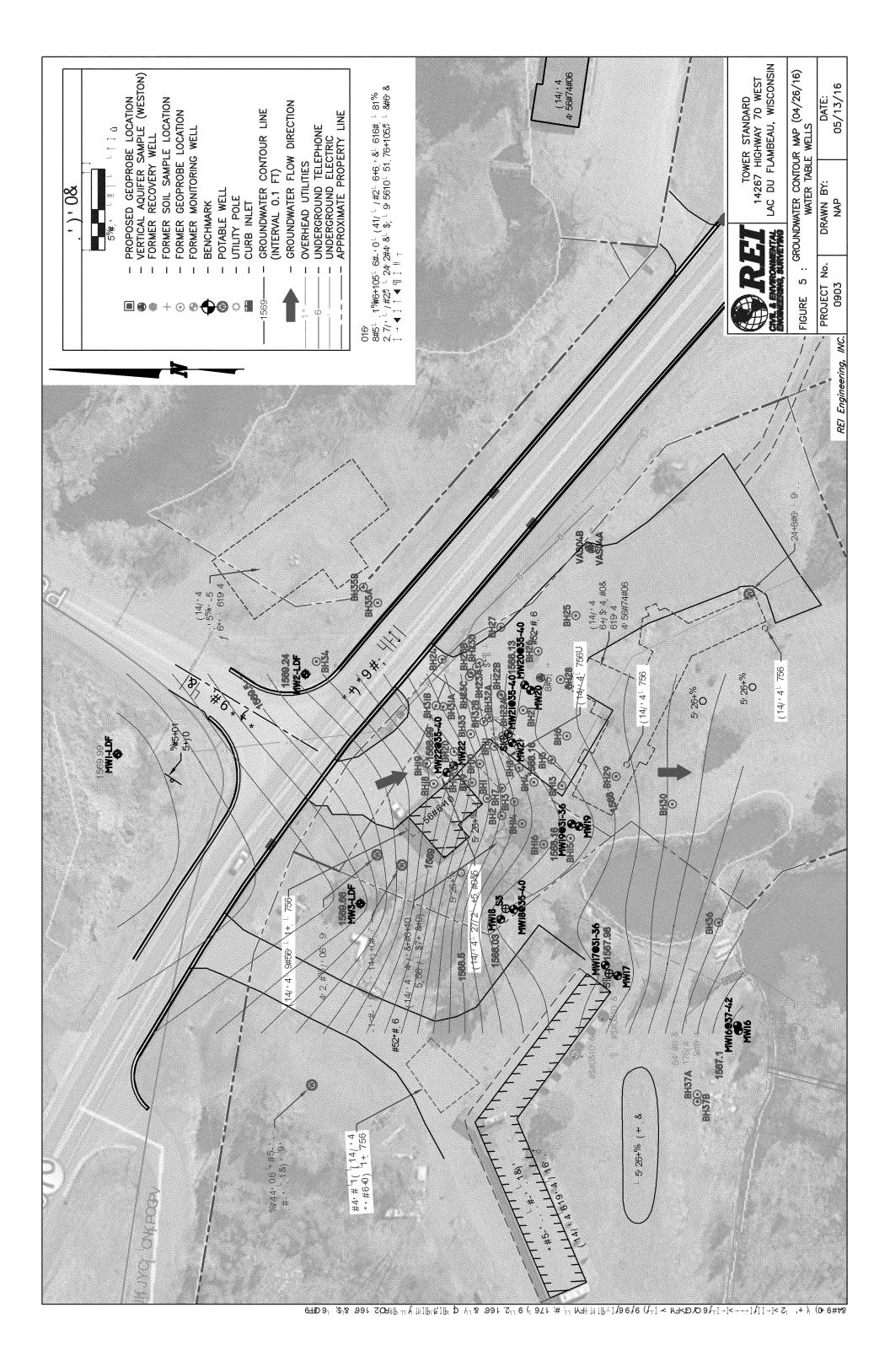


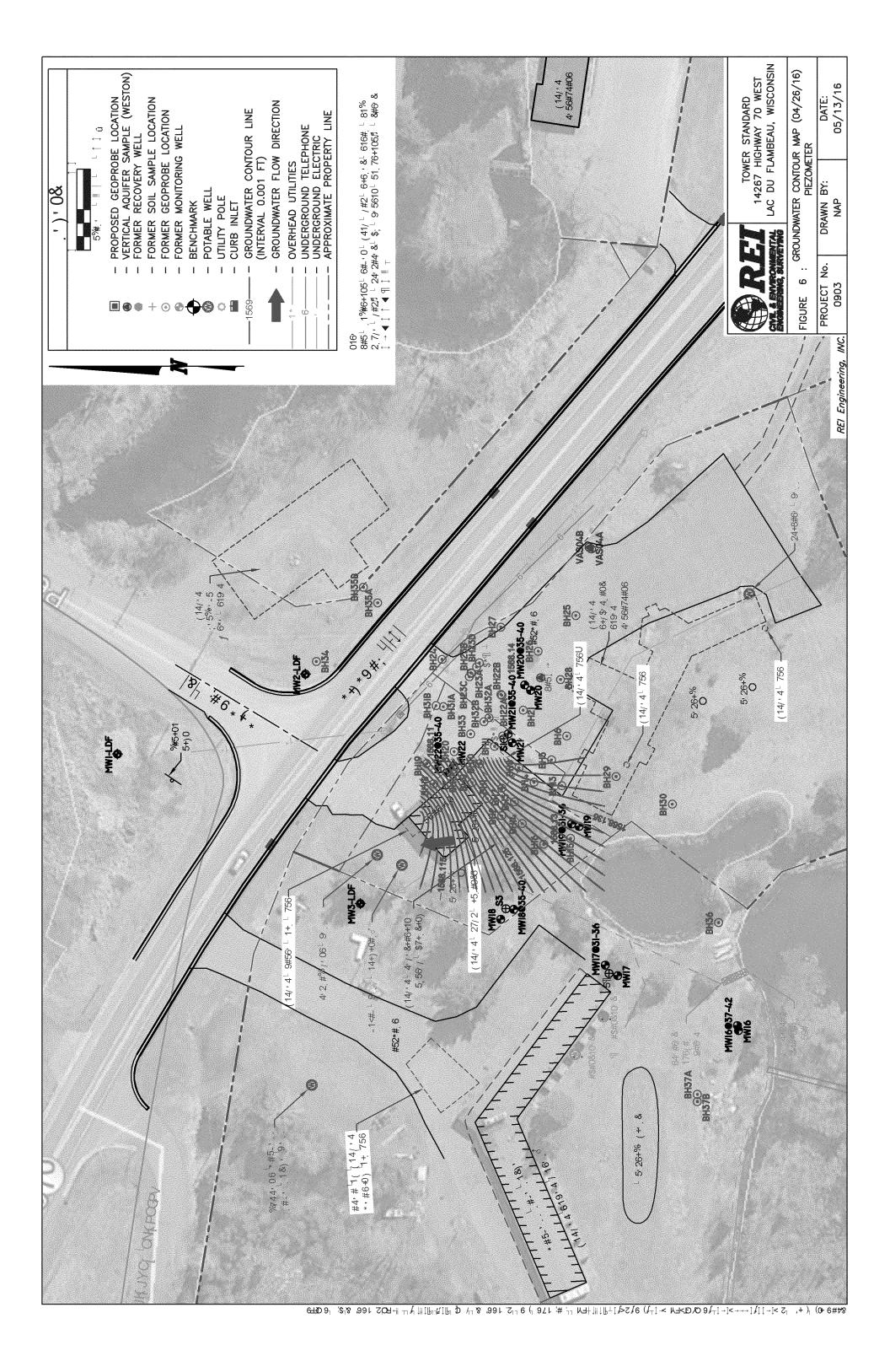


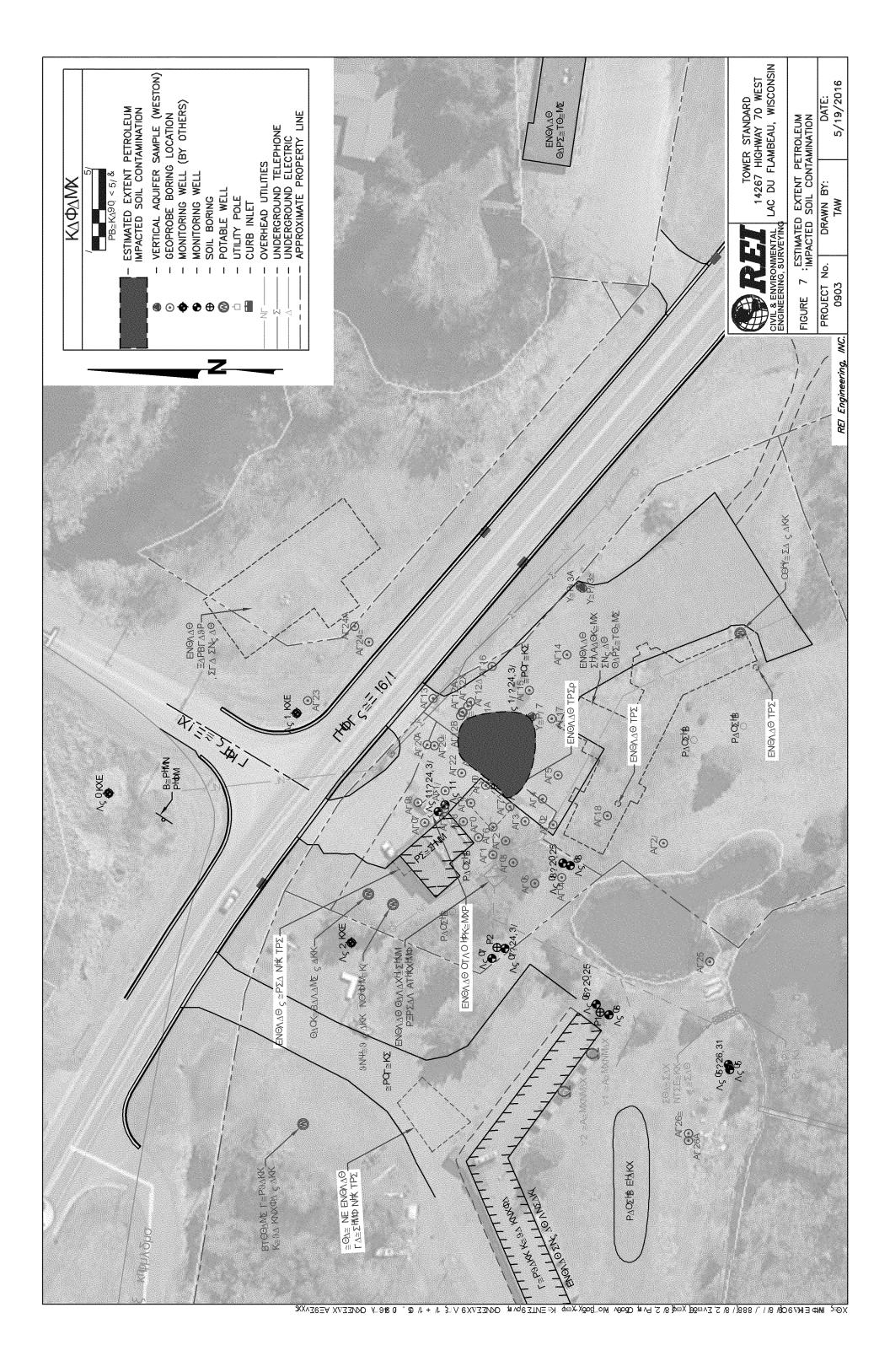


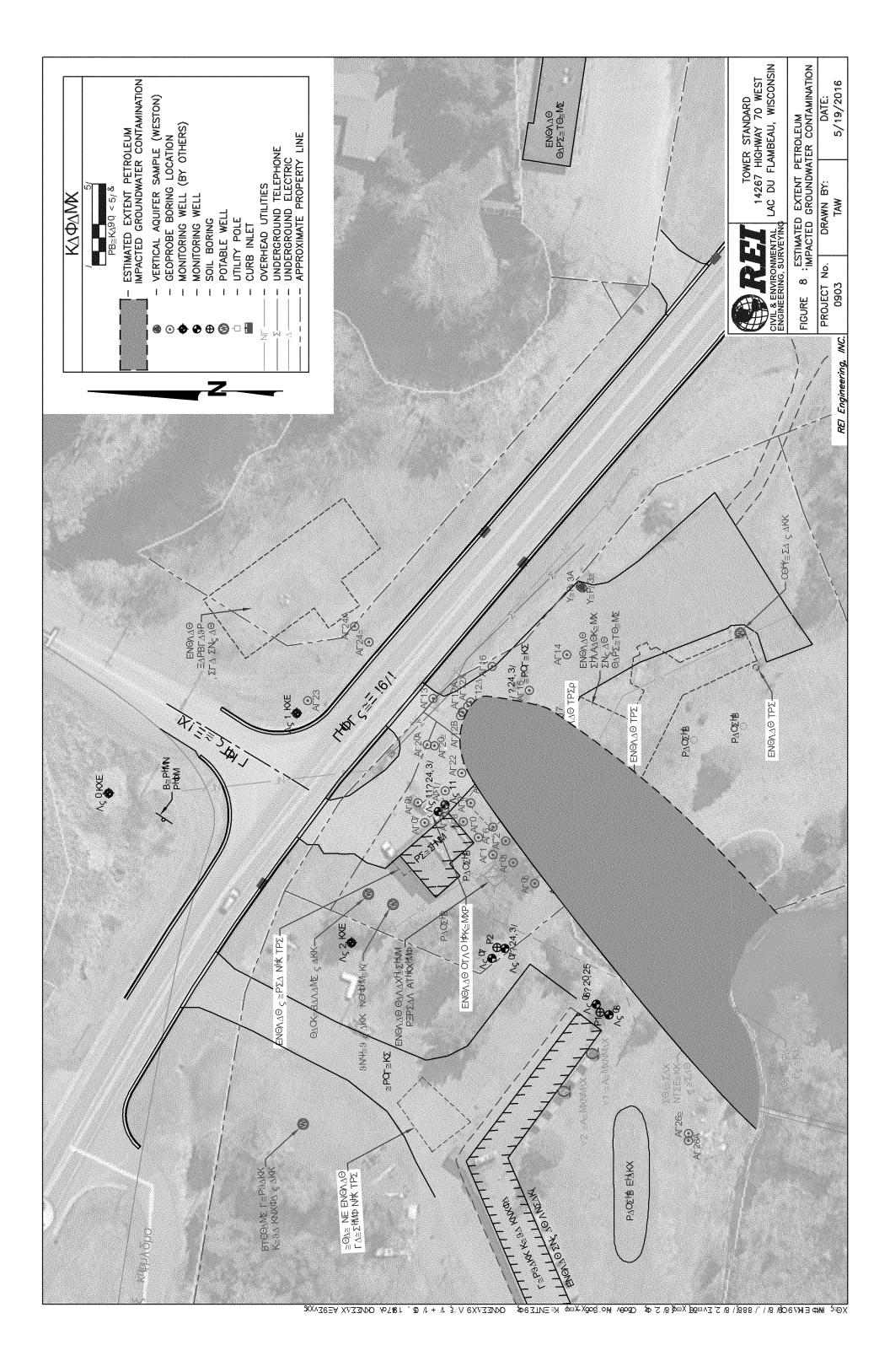


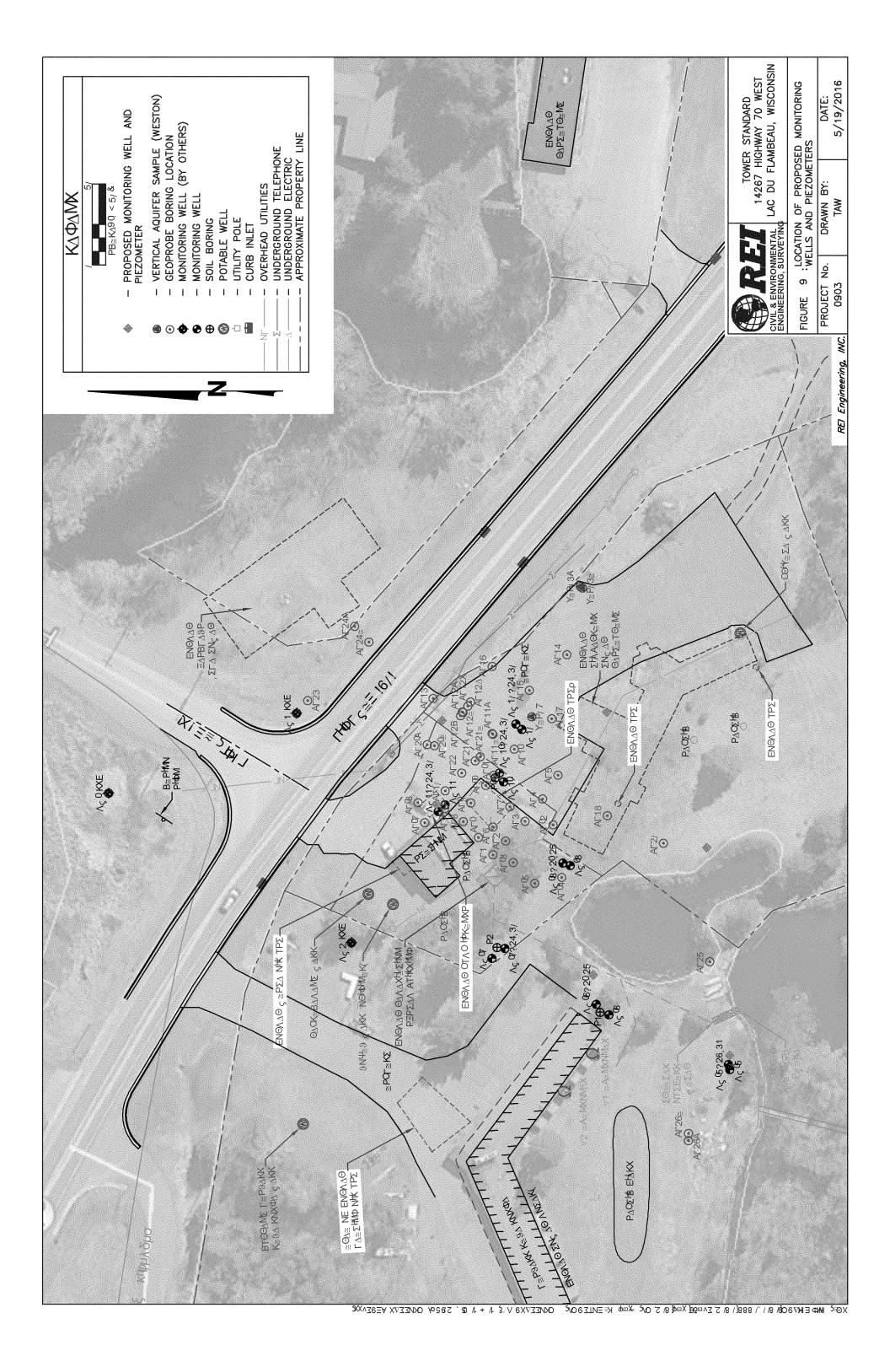












APPENDIX A

DATCP PETROLEUM TANKS DATABASE

Tank Detail Page 1 of 2

Search by Site, Owner, or Tank **Search Instructions** Search by Tank ID Characteristics

Tank Detail

Site and Owner

Site Info **County & Municipality** Owner Facility ID: 138087 TOWER STANDARD 63 - VILAS ID: 374368

14267 HWY 70 Town of LAC DU FLAMBEAU TOWER STANDARD SERVICE LAC DU FLAMBEAU Fire Dept ID: 6304 - Lac Du Flambeau 8760 W SQUAW LAKE RD LAC DU FLAMBU WI 54538 9517

Landowner Type: Private Site Anniversary Date: Dispensers have Sumps: Unknown

Underground Storage Tank - ID: 355386, Wang ID: 630400132, Closed/Removed as of 10/01/1997

Waste/Used Install Date: 300 Capacity in Gallons: Contents:

Motor Oil

Retail **Tank Occupancy:**

Fuel Marketer:

CAS Number:

Federally Regulated: Υ

Spill Protection:

Required - Not **Overfill Protection:**

Required -Not Installed

null Containment Sump Installed: Unknown

Overfill Prot Type: Corrosion Protect Type:

Date of Lining: **Lining Inspected Date:**

Single

Installed

Manual

Sales

Leak Detection:

Cath Test Date:

Cath Expire Date:

Tank Gauging

Leak Test Meth:

Leak Expire Date:

Leak Test Date:

Construction Material:

Coated Steel

Wall Size:

Underground Piping: Y

Close Order Date:

Close Order By:

Piping - Closed/Removed

Flex Connectors:

UST mainfolded:

Related Tank ID:

Type:

Aboveground Piping:

Aboveground Pipe Construction:

Construction Material:

Coated Steel

Corrosion Protect Type:

Leak Detection:

Not Required

Cath Expire Date:

Leak Test Meth:

Cath Test Date: **Leak Test Date:**

Leak Expire Date:

Pipe Wall Size:

Single Safe

Catastrophic Leak Detection:

Cat Leak Test Date:

Piping System Type:

Suction

Inspections

Click here for login page

Trans ID

Type **Status** Date Fiscal Yr

** No inspections for this tank **

Tank Detail Page 1 of 2

Search Instructions Characteristics Search by Tank ID

Tank Detail

Site and Owner

Site InfoCounty & MunicipalityOwnerFacility ID: 138087 TOWER STANDARD 63 - VILASID: 374368

14267 HWY 70 Town of LAC DU FLAMBEAU TOWER STANDARD SERVICE
LAC DU FLAMBEAU Fire Dept ID: 6304 - Lac Du Flambeau 8760 W SQUAW LAKE RD
Landowner Type: Private LAC DU FLAMBU WI 54538 9517

Site Anniversary Date: Dispensers have Sumps: Unknown

Underground Storage Tank - ID: 355387, Wang ID: 630400133, Closed/Removed as of 10/01/1997

Install Date: Capacity in Gallons: 300 Contents: Leaded Gasoline

Tank Occupancy: Retail Fuel Sales Marketer: Y CAS Number:

Federally Regulated: Y Spill Protection: Required - Required - Not Overfill Protection: - Not

Installed Installed

Overfill Prot Type: null Containment Sump Installed: Unknown

Corrosion Protect Type: Date of Lining: Lining Inspected Date:

Inventory

Leak Detection: Control & Cath Test Date: Cath Expire Date:

Tightness
Test

Leak Test Meth: Leak Expire Date: Leak Test Date:

Construction Material: Coated Steel Wall Size: Single Underground Piping: Y

Close Order Date: Close Order By:

Piping - Closed/Removed
Flex Connectors: UST mainfolded: Re

Flex Connectors: UST mainfolded: Related Tank ID:

Type: Aboveground Piping: Aboveground Pipe Construction:

Coated Commonly Bushest Type: Look Potentian: Not

Construction Material: Steel Corrosion Protect Type: Leak Detection: Required

Cath Test Date: Cath Expire Date: Leak Test Meth:

Leak Test Date:Leak Expire Date:Pipe Wall Size:SingleCatastrophic Leak Detection:Cat Leak Test Date:Piping System Type:Safe Suction

Inspections Click here for login page

Trans ID Type Status Date Fiscal Yr

** No inspections for this tank **

Tank Detail Page 1 of 2

Search by Site, Owner, or Tank **Search Instructions** Search by Tank ID Characteristics

Tank Detail

Site and Owner

Site Info **County & Municipality** Owner Facility ID: 138087 TOWER STANDARD 63 - VILAS ID: 374368

14267 HWY 70 Town of LAC DU FLAMBEAU TOWER STANDARD SERVICE LAC DU FLAMBEAU Fire Dept ID: 6304 - Lac Du Flambeau 8760 W SQUAW LAKE RD Landowner Type: Private LAC DU FLAMBU WI 54538 9517

Site Anniversary Date: Dispensers have Sumps: Unknown

Underground Storage Tank - ID: 355388, Wang ID: 630400134, Closed/Removed as of 10/01/1997

Unleaded Install Date: 6000 Contents: Capacity in Gallons: Gasoline

Retail

CAS Number: Tank Occupancy: Fuel Marketer:

Sales

Required -Required -

Federally Regulated: Υ **Spill Protection:** Not **Overfill Protection:** Not Installed Installed

Overfill Prot Type: null Containment Sump Installed: Unknown

Corrosion Protect Type: Date of Lining: **Lining Inspected Date:**

Manual

Leak Detection: Tank **Cath Test Date: Cath Expire Date:**

Gauging

Leak Test Date: Leak Test Meth: Leak Expire Date:

Coated Wall Size: **Construction Material:** Single Underground Piping: Y

Steel

Close Order Date: Close Order By:

Piping - Closed/Removed

Flex Connectors: **UST** mainfolded: Related Tank ID:

Type: **Aboveground Piping: Aboveground Pipe Construction:**

Coated Not **Construction Material: Corrosion Protect Type:** Leak Detection: Steel Required

Cath Test Date: Cath Expire Date: Leak Test Meth:

Leak Test Date: Leak Expire Date: Pipe Wall Size: Single Safe **Catastrophic Leak Detection:** Cat Leak Test Date: **Piping System Type:** Suction

Inspections Click here for login page

Trans ID **Status** Date Fiscal Yr

Type ** No inspections for this tank **

Tank Detail Page 1 of 2

Search Instructions Characteristics Search by Tank ID

Tank Detail

Site and Owner

Site Info **County & Municipality** Owner Facility ID: 138087 TOWER STANDARD 63 - VILAS ID: 374368

14267 HWY 70 Town of LAC DU FLAMBEAU TOWER STANDARD SERVICE LAC DU FLAMBEAU Fire Dept ID: 6304 - Lac Du Flambeau 8760 W SQUAW LAKE RD LAC DU FLAMBU WI 54538 9517 Landowner Type: Private

Site Anniversary Date: Dispensers have Sumps: Unknown

Underground Storage Tank - ID: 355389, Wang ID: 630400135, Closed/Removed as of 10/01/1997

Unleaded Install Date: 1000 Contents: Capacity in Gallons:

Gasoline

Retail **Tank Occupancy:**

Υ **CAS Number:** Fuel Marketer:

Sales

Required -Required -Federally Regulated: Υ **Spill Protection:** Not **Overfill Protection:** Not

Installed Installed

Overfill Prot Type: null Containment Sump Installed: Unknown

Corrosion Protect Type: Date of Lining: **Lining Inspected Date:**

Manual

Leak Detection: Tank **Cath Test Date: Cath Expire Date:**

Gauging

Leak Test Date: Leak Test Meth: Leak Expire Date:

Coated Wall Size: **Construction Material:** Single Underground Piping: Y Steel

Close Order Date: Close Order By:

Piping - Closed/Removed

Flex Connectors: **UST** mainfolded: Related Tank ID:

Type: **Aboveground Piping: Aboveground Pipe Construction:**

Coated Not **Construction Material: Corrosion Protect Type:** Leak Detection: Steel Required

Cath Test Date: Cath Expire Date: Leak Test Meth:

Leak Test Date: Leak Expire Date: Pipe Wall Size: Single Safe **Catastrophic Leak Detection:** Cat Leak Test Date: **Piping System Type:** Suction

Inspections Click here for login page

Trans ID Type **Status** Date Fiscal Yr

** No inspections for this tank **

Tank Detail Page 1 of 2

	Search Instructions	Search by Site, Owner, or Tank Characteristics	Search by Tank ID
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Tank Detail

Site and Owner

Site InfoCounty & MunicipalityOwnerFacility ID: 138087 TOWER STANDARD 63 - VILASID: 374368

14267 HWY 70 Town of LAC DU FLAMBEAU TOWER STANDARD SERVICE
LAC DU FLAMBEAU Fire Dept ID: 6304 - Lac Du Flambeau 8760 W SQUAW LAKE RD
Landowner Type: Private LAC DU FLAMBU WI 54538 9517

Site Anniversary Date: Dispensers have Sumps: Unknown

Underground Storage Tank - ID: 355390, Wang ID: 630400136, Closed/Removed as of 10/01/1997

Install Date: Capacity in Gallons: 1000 Contents: Unleaded

Gasoline

Retail

Tank Occupancy:FuelMarketer:YCAS Number:

Sales

Federally Regulated: Y Spill Protection: Required - Not Overfill Protection: Not

Installed

Overfill Prot Type: null Containment Sump Installed: Unknown

Corrosion Protect Type: Date of Lining: Lining Inspected Date:

Manual

Leak Detection: Tank Cath Test Date: Cath Expire Date:

Gauging

Leak Test Meth: Leak Expire Date: Leak Test Date:

Construction Material: Coated Steel Wall Size: Single Underground Piping: Y

Close Order Date: Close Order By:

Piping - Closed/Removed

Flex Connectors: UST mainfolded: Related Tank ID:

Type: Aboveground Piping: Aboveground Pipe Construction:

Construction Material: Coated Steel Corrosion Protect Type: Leak Detection: Not Required

Cath Test Date: Cath Expire Date: Leak Test Meth:

 Leak Test Date:
 Leak Expire Date:
 Pipe Wall Size:
 Single

 Catastrophic Leak Detection:
 Cat Leak Test Date:
 Piping System Type:
 Safe Suction

Inspections Click here for login page

Trans ID Type Status Date Fiscal Yr

** No inspections for this tank **

Tank Detail Page 1 of 1

Search Instructions Search by Site, Owner, or Tank Characteristics	Search by Tank ID
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Tank Detail

Leak Detection:

Site and Owner

County & Municipality Site Info Owner Facility ID: 138087 TOWER STANDARD 63 - VILAS ID: 374368

14267 HWY 70 Town of LAC DU FLAMBEAU TOWER STANDARD SERVICE LAC DU FLAMBEAU Fire Dept ID: 6304 - Lac Du Flambeau 8760 W SQUAW LAKE RD

Landowner Type: Private LAC DU FLAMBU WI 54538 9517

Site Anniversary Date: Dispensers have Sumps: Unknown

Underground Storage Tank - ID: 355505, Wang ID: 630400254, Closed/Removed as of 10/01/1997

Waste/Used Install Date: Capacity in Gallons: 500 Contents: Motor Oil

Retail Fuel Marketer: Υ **CAS Number: Tank Occupancy:** Sales

Required -

Required -Federally Regulated: Y **Spill Protection:** Not **Overfill Protection:** Not Installed Installed

Overfill Prot Type: null Containment Sump Installed: Unknown

Sacrificial **Corrosion Protect Type:** Date of Lining: **Lining Inspected Date:** Anode

Manual Cath Test Date: **Cath Expire Date:**

Gauging

Leak Test Meth: Leak Test Date: Leak Expire Date:

Coated **Construction Material:** Wall Size: Single Underground Piping: Y Steel

Close Order Date: Close Order By:

Tank

Piping - Closed/Removed

Flex Connectors: **UST** mainfolded: Related Tank ID:

Type: **Aboveground Piping: Aboveground Pipe Construction:**

Corrosion Protect Type: Sacrificial Leak Detection: Not Coated **Construction Material:** Steel Required

Cath Test Date: Cath Expire Date: Leak Test Meth:

Leak Test Date: Leak Expire Date: Pipe Wall Size: Single

Gravity/AST

Catastrophic Leak Detection: Cat Leak Test Date: **Piping System Type:** Head Pressure

Inspections Click here for login page

Fiscal Yr Trans ID Status Date Type

** No inspections for this tank **

Close this response window

Wisconsin Department of Safety and Professional Services

Tank Detail Page 1 of 1

Search Instructions	Search by Site, Owner, or Tank Characteristics	Search by Tank ID

Tank Detail

Site and Owner

Site InfoCounty & MunicipalityOwnerFacility ID: 138080 TOWER INN 63 - VILASID: 849131

14277 STH 70 W Town of LAC DU FLAMBEAU U.S. BANK CORPORATE REAL ESTATE LAC DU FLAMBEAU Fire Dept ID: 6304 - Lac Du Flambeau 777 E WISCONISN AVE STE 3175

Landowner Type: Private MILWAUKEE WI 53202

Site Anniversary Date: Dispensers have Sumps: Unknown

Underground Storage Tank - ID: 355553, Wang ID: 630400304, Closed/Removed as of 05/14/1997

Install Date: Capacity in Gallons: 6117 Contents: Fuel Oil

Tank Occupancy: Mercantile/Commercial Marketer: N CAS Number:

Required Required

Federally Regulated: N Spill Protection: - Not Overfill Protection: - Not Installed Installed

Overfill Prot Type: null Containment Sump Installed: Unknown

Corrosion Protect Type: Date of Lining: Lining Inspected Date:

Leak Detection: Unknown Cath Test Date: Cath Expire Date:

Leak Test Meth: Leak Expire Date: Leak Test Date:

Construction Material: Bare Steel Wall Size: Single Underground Piping: Y

Close Order Date: Close Order By:

Piping - Closed/Removed

Flex Connectors: UST mainfolded: Related Tank ID:

Type: Aboveground Piping: Aboveground Pipe Construction:

Construction Material: Bare Steel Corrosion Protect Type: Leak Detection:

Cath Test Date: Cath Expire Date: Leak Test Meth:

Leak Test Date:Leak Expire Date:Pipe Wall Size:Single

Catastrophic Leak Detection: Cat Leak Test Date: Piping System Type: Safe Suction

Inspections Click here for login page

Trans ID Type Status Date Fiscal Yr

** No inspections for this tank **

Close this response window

Wisconsin Department of Safety and Professional Services

Unknown

Search Instructions Search by Site, Owner, or Tank Characteristics	Search by Tank ID
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Tank Detail

Site and Owner

Site InfoCounty & MunicipalityOwnerFacility ID: 138077 TOWER INN 63 - VILASID: 30609714277 STH 70 WTown of LAC DU FLAMBEAUF & M BANKLAC DU FLAMBEAUFire Dept ID: 6304 - Lac Du Flambeau PO BOX 500

Landowner Type: Private WOODRUFF WI 54568 0500

Site Anniversary Date: Dispensers have Sumps: Unknown

Underground Storage Tank - ID: 355507, Wang ID: 630400256, Closed/Removed as of 07/29/1993

Install Date: Capacity in Gallons: 500 Contents: Fuel Oil

Tank Occupancy: Agricultural Marketer: N CAS Number:

Required Required

Federally Regulated: N Spill Protection: - Not Overfill Protection: - Not

Installed Installed

Overfill Prot Type: null Containment Sump Installed: Unknown

Corrosion Protect Type: Date of Lining: Lining Inspected Date:

Leak Detection: Not Required Cath Test Date: Cath Expire Date:

Leak Test Meth: Leak Expire Date: Leak Test Date:

Construction Material: Coated Steel Wall Size: Single Underground Piping: Y

Close Order Date: Close Order By:

Piping - Closed/Removed

Flex Connectors: UST mainfolded: Related Tank ID:

Type: Aboveground Piping: Aboveground Pipe Construction:

Construction Material:

Bare Steel Corrosion Protect Type: Leak Detection:

Not Required

Cath Test Date: Cath Expire Date: Leak Test Meth:

Leak Test Date:Leak Expire Date:Pipe Wall Size:SingleCatastrophic Leak Detection:Cat Leak Test Date:Piping System Type:Unknown

Inspections Click here for login page

Trans ID Type Status Date Fiscal Yr

** No inspections for this tank **

Close this response window

		7
Search Instructions Searc	h by Site, Owner, or Tank Characteristics	Search by Tank ID

Tank Detail

Site and Owner

Site InfoCounty & MunicipalityOwnerFacility ID: 138077 TOWER INN 63 - VILASID: 30609714277 STH 70 WTown of LAC DU FLAMBEAUF & M BANKLAC DU FLAMBEAUFire Dept ID: 6304 - Lac Du Flambeau PO BOX 500

Landowner Type: Private WOODRUFF WI 54568 0500

Site Anniversary Date: Dispensers have Sumps: Unknown

Underground Storage Tank - ID: 355508, Wang ID: 630400257, Closed/Removed as of 08/02/1993

Install Date: Capacity in Gallons: 1000 Contents: Fuel Oil

Tank Occupancy: Agricultural Marketer: N CAS Number:

Federally Regulated: N Spill Protection: Required - Not Installed Overfill Protection: Required - Not Installed

Overfill Prot Type: null Containment Sump Installed: Unknown

Corrosion Protect Type: Date of Lining: Lining Inspected Date:

 Leak Detection:
 Not Required
 Cath Test Date:
 Cath Expire Date:

 Leak Test Meth:
 Leak Expire Date:
 Leak Test Date:

Construction Material: Coated Steel Wall Size: Single Underground Piping: Y

Close Order Date: Close Order By:

Piping - Closed/Removed

Flex Connectors: UST mainfolded: Related Tank ID:

Type: Aboveground Piping: Aboveground Pipe Construction:

Construction Material:

Bare Steel Corrosion Protect Type: Leak Detection:

Not Required

Cath Test Date: Cath Expire Date: Leak Test Meth:

Leak Test Date: Leak Expire Date: Pipe Wall Size: Single

Catastrophic Leak Detection: Restrictor Cat Leak Test Date: Piping System Type: Pressurized

Inspections Click here for login page

Trans ID Type Status Date Fiscal Yr

** No inspections for this tank **

Close this response window

Search Instructions Characteristics Search by Tank ID		Search by Site, Owner, or Tank	0 11 7 110
	Search Instructions	<u>Characteristics</u>	Search by Tank ID

Tank Detail

Site and Owner

Site InfoCounty & MunicipalityOwnerFacility ID: 138088 TOWER SUPPER CLUB 63 - VILAS
STH 70ID: 306097
Town of LAC DU FLAMBEAUF & M BANK
Fire Dept ID: 6304 - Lac Du Flambeau PO BOX 500

Landowner Type: Private WOODRUFF WI 54568 0500

Site Anniversary Date: Dispensers have Sumps: Unknown

Underground Storage Tank - ID: 355392, Wang ID: 630400138, Closed/Removed as of 08/02/1993

Install Date: Capacity in Gallons: 1000 Contents: Fuel Oil

Tank Occupancy: Mercantile/Commercial Marketer: N CAS Number:

Required Required Required

Federally Regulated: N Spill Protection: - Not Overfill Protection: - Not Installed Installed

Overfill Prot Type: null Containment Sump Installed: Unknown

Corrosion Protect Type: Date of Lining: Lining Inspected Date:

Leak Detection: Unknown Cath Test Date: Cath Expire Date:

Leak Test Meth: Leak Expire Date: Leak Test Date:

Construction Material: Coated Steel Wall Size: Single Underground Piping: Y

Close Order Date: Close Order By:

Piping - Closed/Removed

Flex Connectors: UST mainfolded: Related Tank ID:

Type: Aboveground Piping: Aboveground Pipe Construction:

Construction Material: Unknown Corrosion Protect Type: Leak Detection: Unknown

Cath Test Date: Cath Expire Date: Leak Test Meth:

Leak Test Date:Leak Expire Date:Pipe Wall Size:SingleCatastrophic Leak Detection:Cat Leak Test Date:Piping System Type:Unknown

Inspections Click here for login page

Trans ID Type Status Date Fiscal Yr

** No inspections for this tank **

Close this response window

Search Instructions Search by Site, Owner, or Tank Search Characteristics Search	by Tank ID
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Tank Detail

Site and Owner

Site InfoCounty & MunicipalityOwnerFacility ID: 138088 TOWER SUPPER CLUB 63 - VILAS
STH 70ID: 306097
Town of LAC DU FLAMBEAUF & M BANK
Fire Dept ID: 6304 - Lac Du Flambeau PO BOX 500

Landowner Type: Private WOODRUFF WI 54568 0500

Site Anniversary Date: Dispensers have Sumps: Unknown

Underground Storage Tank - ID: 355393, Wang ID: 630400139, Closed/Removed as of 07/29/1993

Install Date: Capacity in Gallons: 500 Contents: Fuel Oil

Tank Occupancy: Mercantile/Commercial Marketer: N CAS Number:

Required Required

Federally Regulated: N Spill Protection: - Not Overfill Protection: - Not Installed Installed

Overfill Prot Type: null Containment Sump Installed: Unknown

Corrosion Protect Type: Date of Lining: Lining Inspected Date:

Leak Detection: Unknown Cath Test Date: Cath Expire Date:

Leak Test Meth: Leak Expire Date: Leak Test Date:

Construction Material: Coated Steel Wall Size: Single Underground Piping: Y

Close Order Date: Close Order By:

Piping - Closed/Removed

Flex Connectors: UST mainfolded: Related Tank ID:

Type: Aboveground Piping: Aboveground Pipe Construction:

Construction Material: Unknown Corrosion Protect Type: Leak Detection: Unknown

Cath Test Date: Cath Expire Date: Leak Test Meth:

Leak Test Date:Leak Expire Date:Pipe Wall Size:SingleCatastrophic Leak Detection:Cat Leak Test Date:Piping System Type:Unknown

Inspections Click here for login page

Trans ID Type Status Date Fiscal Yr

** No inspections for this tank **

Close this response window

Search by Site, Owner, or Tank **Search Instructions** Search by Tank ID Characteristics

Tank Detail

Site and Owner

Site Info County & Municipality Owner Facility ID: 84939 GRIZZLY BILLS INC 63 - VILAS ID: 314840

1420 STH 70 Town of LAC DU FLAMBEAU **GRIZZLY BILLS INC**

LAC DU FLAMBEAU Fire Dept ID: 6304 - Lac Du Flambeau 1420 HWY 70

Landowner Type: Private LAC DU FLAMBEAU WI 54538

Site Anniversary Date: Dispensers have Sumps: Unknown

Underground Storage Tank - ID: 355362, Wang ID: 630400108, Closed/Removed as of 09/03/1997

Install Date: Capacity in Gallons: Contents: 550 Premix

Retail Fuel **Tank Occupancy:** Marketer: Υ **CAS Number:** Sales

Required -Required

Not **Overfill Protection:** - Not Federally Regulated: Υ **Spill Protection:** Installed Installed

Overfill Prot Type: null Containment Sump Installed: Unknown

Corrosion Protect Type: Date of Lining: **Lining Inspected Date:**

Inventory

Control & **Leak Detection: Cath Test Date: Cath Expire Date:**

Tightness Test

Leak Test Meth: Leak Expire Date: Leak Test Date:

Coated **Construction Material:** Wall Size: Single Underground Piping: Y Steel

Close Order Date: Close Order By:

Piping - Closed/Removed

Flex Connectors: **UST** mainfolded: Related Tank ID:

Type: **Aboveground Piping: Aboveground Pipe Construction:**

Coated Corrosion Protect Type: **Construction Material: Leak Detection:** Required

Cath Test Date: Cath Expire Date: Leak Test Meth:

Leak Test Date: Leak Expire Date: Pipe Wall Size: Single Safe Cat Leak Test Date: **Catastrophic Leak Detection: Piping System Type:** Suction

Inspections Click here for login page

Trans ID Type **Status** Date Fiscal Yr

** No inspections for this tank **

Close this response window

Wisconsin Department of Safety and Professional Services

Not

|--|

Tank Detail

Overfill Prot Type:

Site and Owner

Site InfoCounty & MunicipalityOwnerFacility ID: 84939 GRIZZLY BILLS INC 63 - VILASID: 314840

1420 STH 70 Town of LAC DU FLAMBEAU GRIZZLY BILLS INC

LAC DU FLAMBEAU Fire Dept ID: 6304 - Lac Du Flambeau 1420 HWY 70

Landowner Type: Private LAC DU FLAMBEAU WI 54538

Site Anniversary Date: Dispensers have Sumps: Unknown

Underground Storage Tank - ID: 355363, Wang ID: 630400109, Closed/Removed as of 09/03/1997

Install Date: Capacity in Gallons: 10000 Contents: Unleaded Gasoline

Tank Occupancy: Retail Fuel Sales Marketer: Y CAS Number:

Required - Required -

Federally Regulated: Y Spill Protection: Not Overfill Protection: Not Installed Installed

Containment Sump Installed: Unknown

Corrosion Protect Type: Date of Lining: Lining Inspected Date:

Inventory

Leak Detection: Control & Cath Test Date: Cath Expire Date:

Tightness
Test

Leak Test Meth: Leak Expire Date: Leak Test Date:

Construction Material: Coated Steel Wall Size: Single Underground Piping: Y

Close Order Date: Close Order By:

null

Piping - Closed/Removed

Flex Connectors: UST mainfolded: Related Tank ID:

Type: Aboveground Piping: Aboveground Pipe Construction:

Construction Material:

Coated Steel
Corrosion Protect Type: Leak Detection:
Tightness Test

Cath Test Date: Cath Expire Date: Leak Test Meth:

Leak Test Date: Leak Expire Date: Pipe Wall Size: Single

Catastrophic Leak Detection: Restrictor Cat Leak Test Date: Piping System Type: Pressurized

Inspections Click here for login page

Trans ID Type Status Date Fiscal Yr

** No inspections for this tank **

Close this response window

|--|

Tank Detail

Site and Owner

Site InfoCounty & MunicipalityOwnerFacility ID: 84939 GRIZZLY BILLS INC 63 - VILASID: 314840

1420 STH 70 Town of LAC DU FLAMBEAU GRIZZLY BILLS INC

LAC DU FLAMBEAU Fire Dept ID: 6304 - Lac Du Flambeau 1420 HWY 70

Landowner Type: Private LAC DU FLAMBEAU WI 54538

Site Anniversary Date: Dispensers have Sumps: Unknown

Underground Storage Tank - ID: 355364, Wang ID: 630400110, Closed/Removed as of 09/03/1997

Install Date: Capacity in Gallons: 10000 Contents: Unleaded Gasoline

Tank Occupancy: Retail Fuel Sales Marketer: Y CAS Number:

Required - Required -

Federally Regulated: Y Spill Protection: Not Overfill Protection: Not

Installed Installed

Overfill Prot Type: null Containment Sump Installed: Unknown

Corrosion Protect Type: Date of Lining: Lining Inspected Date:

Inventory

Leak Detection: Control & Cath Test Date: Cath Expire Date:

Tightness Test

Leak Test Meth: Leak E

Leak Expire Date: Leak Test Date:

Construction Material: Coated Steel Wall Size: Single Underground Piping: Y

Close Order Date: Close Order By:

Piping - Closed/Removed

Flex Connectors: UST mainfolded: Related Tank ID:

Type: Aboveground Piping: Aboveground Pipe Construction:

Construction Material:

Coated Steel
Corrosion Protect Type: Leak Detection:
Tightness Test

Cath Test Date: Cath Expire Date: Leak Test Meth:

Leak Test Date: Leak Expire Date: Pipe Wall Size: Single

Catastrophic Leak Detection: Restrictor Cat Leak Test Date: Piping System Type: Pressurized

Inspections Click here for login page

Trans ID Type Status Date Fiscal Yr

** No inspections for this tank **

Close this response window

Search Instructions Search by Site, Owner, or Tank Characteristics Search by Tank ID

Tank Detail

Site and Owner

Site InfoCounty & MunicipalityOwnerFacility ID: 84939 GRIZZLY BILLS INC 63 - VILASID: 314840

1420 STH 70 Town of LAC DU FLAMBEAU GRIZZLY BILLS INC

LAC DU FLAMBEAU Fire Dept ID: 6304 - Lac Du Flambeau 1420 HWY 70

Landowner Type: Private LAC DU FLAMBEAU WI 54538

Site Anniversary Date: Dispensers have Sumps: Unknown

Underground Storage Tank - ID: 355504, Wang ID: 630400253, Closed/Removed as of 09/03/1997

Install Date: Capacity in Gallons: 550 Contents: Leaded Gasoline

Tank Occupancy: Retail Fuel Sales Marketer: Y CAS Number:

Federally Regulated: Y Spill Protection: Required - Required - Not Overfill Protection: - Not

Installed

Overfill Prot Type: null Containment Sump Installed: Unknown

Corrosion Protect Type: Date of Lining: Lining Inspected Date:

Inventory
Control & Cott To t Date

Leak Detection: Cath Test Date: Cath Expire Date:

Test

Leak Test Meth: Leak Expire Date: Leak Test Date:

Construction Material: Steel Wall Size: Single Underground Piping: Y

Close Order Date: Close Order By:

Piping - Closed/Removed
Flex Connectors: UST mainfolded: Related Tank ID:

About many divisions About many division Construction

Construction Material: Coated Steel Corrosion Protect Type: Leak Detection: Not Required

Cath Test Date: Cath Expire Date: Leak Test Meth:

Leak Test Date:Leak Expire Date:Pipe Wall Size:SingleCatastrophic Leak Detection:Cat Leak Test Date:Piping System Type:Safe Suction

Inspections Click here for login page

Trans ID Type Status Date Fiscal Yr

** No inspections for this tank **

Close this response window

Search Instructions Search by Site, Owner, or Tank Characteristics Search by Site of Characteristics	earch by Tank ID
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Tank Detail

Site and Owner

Site Info County & Municipality Owner 63 - VILAS Facility ID: 136011 WISCONSIN DEPT OF ID: 369441

TRANSPORTATION Town of LAC DU WISCONSIN DEPARTMENT OF

14465 STATE HWY 70 **FLAMBEAU** TRANSPORTATION LAC DU FLAMBEAU Fire Dept ID: 6304 - Lac 4802 SHEBOYGAN AVE RM 751

Landowner Type: Private Du Flambeau PO Box 7915

MADISON WI 53707 7915

Site Anniversary Date: Dispensers have Sumps: Unknown

Underground Storage Tank - ID: 355273, Wang ID: 630400012, Closed/Removed as of 08/19/2003

Unleaded Install Date: Capacity in Gallons: 2000 Contents: Gasoline

Retail

Fuel Marketer: CAS Number: Tank Occupancy: Υ

Sales

Required Required

Federally Regulated: Υ **Spill Protection:** - Not **Overfill Protection:** - Not Installed Installed

Overfill Prot Type: Containment Sump Installed: Unknown null

Corrosion Protect Type: Date of Lining: Lining Inspected Date: **Leak Detection:** Cath Test Date: Cath Expire Date: null Leak Test Meth: **Leak Test Date:** Leak Expire Date:

Bare Wall Size: **Construction Material:** Single Underground Piping: Y Steel

Close Order Date: Close Order By:

Piping - Closed/Removed

Flex Connectors: **UST** mainfolded: Related Tank ID:

Aboveground Pipe Construction: Type: **Aboveground Piping:**

Bare **Construction Material: Corrosion Protect Type: Leak Detection:** null Steel

Cath Test Date: Cath Expire Date: Leak Test Meth:

Leak Test Date: Pipe Wall Size: Leak Expire Date: Single

Catastrophic Leak Detection: Cat Leak Test Date: **Piping System Type:**

Inspections Click here for login page

Trans ID Type Status **Date Fiscal Yr**

** No inspections for this tank **

Close this response window

Search Instructions Search by Site, Owner, or Tank Characteristics Search by Tank ID
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Tank Detail

Site and Owner

Site Info County & Municipality Owner ID: 369441

63 - VILAS Facility ID: 136011 WISCONSIN DEPT OF TRANSPORTATION Town of LAC DU 14465 STATE HWY 70 **FLAMBEAU**

TRANSPORTATION Fire Dept ID: 6304 - Lac LAC DU FLAMBEAU 4802 SHEBOYGAN AVE RM 751

Landowner Type: Private Du Flambeau PO Box 7915

MADISON WI 53707 7915

Site Anniversary Date: Dispensers have Sumps: Unknown

Underground Storage Tank - ID: 355274, Wang ID: 630400013, Closed/Removed as of 08/19/2003

Unleaded **Install Date:** Capacity in Gallons: 3000 Contents: Gasoline

Retail

CAS Number: Marketer: Υ Tank Occupancy: Fuel

Sales

Required Required - Not **Overfill Protection:**

- Not Federally Regulated: Υ **Spill Protection:**

Installed Installed

WISCONSIN DEPARTMENT OF

Overfill Prot Type: null Containment Sump Installed: Unknown

Not **Corrosion Protect Type:** Date of Lining: Lining Inspected Date: Applicable

Leak Detection: **Cath Test Date: Cath Expire Date:** null Leak Test Meth: Leak Expire Date: Leak Test Date:

Bare **Construction Material:** Underground Piping: Y Wall Size: Single Steel

Close Order Date: Close Order By:

Piping - Closed/Removed

Flex Connectors: **UST** mainfolded: Related Tank ID:

Type: Aboveground Piping: **Aboveground Pipe Construction:**

Bare **Construction Material: Corrosion Protect Type:** Leak Detection: Steel

Cath Test Date: Cath Expire Date: Leak Test Meth:

Leak Test Date: Leak Expire Date: Pipe Wall Size: Single

Catastrophic Leak Detection: Cat Leak Test Date: **Piping System Type:**

Inspections Click here for login page

Trans ID Type Status Date Fiscal Yr

** No inspections for this tank **

Close this response window

null

<u>Characteristics</u> <u>Search by Tank ID</u>	Search Instructions	Search by Site, Owner, or Tank Characteristics	Search by Tank ID
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Tank Detail

Site and Owner

County & Municipality Site Info Owner 63 - VILAS Facility ID: 136011 WISCONSIN DEPT OF ID: 371840

TRANSPORTATION Town of LAC DU FLAMBEAU THE CRICKET 14465 STATE HWY 70 Fire Dept ID: 6304 - Lac Du 14465 STATE HIGHWAY 70

LAC DU FLAMBEAU Flambeau W # 1

LAC DU FLAMBU WI 54538 Landowner Type: Private

9330

Site Anniversary Date: Dispensers have Sumps: Unknown

Underground Storage Tank - ID: 355275, Wang ID: 630400014, Admin Closure as of 01/14/2008

Install Date: Capacity in Gallons: 1111 Contents: Unknown

Retail Υ **CAS Number:** Tank Occupancy: Marketer: **Fuel Sales**

Required -Required -

Federally Regulated: Υ **Spill Protection: Overfill Protection:** Not Not

Installed Installed

Overfill Prot Type: null Containment Sump Installed: Unknown

Corrosion Protect Type: Date of Lining: **Lining Inspected Date: Leak Detection:** null **Cath Test Date:** Cath Expire Date: **Leak Test Meth: Leak Expire Date:** Leak Test Date:

Underground Piping: Y Construction Material: Unknown Wall Size: Single

Close Order Date: Close Order By:

Piping - Admin Closure

UST mainfolded: Flex Connectors: Related Tank ID:

Type: **Aboveground Piping: Aboveground Pipe Construction: Construction Material: Corrosion Protect Type:** Leak Detection: null

Cath Test Date: Leak Test Meth: **Cath Expire Date:**

Leak Test Date: Leak Expire Date: Pipe Wall Size: Single

Catastrophic Leak Detection: Cat Leak Test Date: **Piping System Type:**

Inspections Click here for login page

Trans ID **Type Status** Fiscal Yr Date 915168 CLOS 09/04/2003 2004 AN

Close this response window

<u>Characteristics</u> <u>Search by Tank ID</u>	Search Instructions	Search by Site, Owner, or Tank Characteristics	Search by Tank ID
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Tank Detail

Site and Owner

Site InfoCounty & MunicipalityOwnerFacility ID: 136011 WISCONSIN DEPT OF63 - VILASID: 371840

Facility ID: 136011 WISCONSIN DEPT OF 63 - VILAS ID: 371840 TOWN of LAC DU FLAMBEAU THE CRICKET

14465 STATE HWY 70 Fire Dept ID: 6304 - Lac Du 14465 STATE HIGHWAY 70 LAC DU FLAMBEAU W # 1

Landowner Type: Private LAC DU FLAMBU WI 54538

9330

Site Anniversary Date: Dispensers have Sumps: Unknown

Underground Storage Tank - ID: 355276, Wang ID: 630400015, Admin Closure as of 01/14/2008

Install Date: Capacity in Gallons: 1111 Contents: Unknown

Tank Occupancy: Retail Fuel Sales Marketer: Y CAS Number:

Required - Required -

Federally Regulated: Y Spill Protection: Not Overfill Protection: Not

Installed Installed

Overfill Prot Type: null Containment Sump Installed: Unknown

Corrosion Protect Type: Date of Lining: Lining Inspected Date:

Leak Detection: null Cath Test Date: Cath Expire Date:

Leak Test Meth: Leak Expire Date: Leak Test Date:

Construction Material: Unknown Wall Size: Single Underground Piping: Y

Close Order Date: Close Order By:

Piping - Admin Closure

Flex Connectors: UST mainfolded: Related Tank ID:

Type: Aboveground Piping: Aboveground Pipe Construction:

Construction Material: Corrosion Protect Type: Leak Detection: null

Cath Test Date: Cath Expire Date: Leak Test Meth:

Leak Test Date: Leak Expire Date: Pipe Wall Size: Single

Catastrophic Leak Detection: Cat Leak Test Date: Piping System Type:

Inspections Click here for login page

 Trans ID
 Type Status
 Date
 Fiscal Yr

 915168
 AN CLOS
 09/04/2003 2004

Close this response window

APPENDIX B

SOIL DISPOSAL DOCUMENTATION

LINCOLN COUNTY LANDFILL 715-536-9636

Mailing: 801 N Sales St. Ste 201, Merrill, WI 54452 Site: N4750 Landfill Lane, Merrill, WI 54452

OPERATING HOURS:

SUMMER (May 1 - Sept. 30) 7:00 am - 4:00 pm WINTER (Oct. 1 - Apr. 30) 8:00 am - 4:00 pm 1st and 3rd Sat. 8:00 am - Noon Monday-Friday

DATE: 11/1/3/2015 Time In: 08:45 AM

Vehicle #: SGS207

TICKET #: 206355 Time Out: 08:52 AM

BILL TO: SGS Envirnomental Contracting, LLC HAULER: SGS Envirnomental Contracting, LLC

JOB 15 - 65 B - REI #903 Tower Standard-Lac Du Flambeau PO# REI job #903

Tare: 29960 8,51 th \$25 ton exempt (CON24)

Gross: 46980

Net Weight: 17020

Scale Notes:

Charge Transaction

HAVE A NICE DAY!

Customer Signature Weighed By: Administrator

I certify that the waste in this vehicle complies with the Wisconsin Recycling law and the landfill bans. I also agree to pay 1.5% per month Late payment charge after 30 days.

APPENDIX C

SOIL BORING LOGS

				Route		lastewater ☐ Redevelopme	nt 🔽		aste Manag	gement								
													<u> </u>		Page	1 of 1		
Fac	ility/	Proje	ct Name	Towe	r Standard	Lice	ense/Permi	it/Mc	onitoring N	umber l	BRRTS	# 03-	34-1278	99 Bor	ing Nur	nber Bl	1 -1	
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Fac	ility	ID 764	4158560		County	Vilas		Cou	inty Code 6	3	Civi	I Tow	n/City/o	r Village	Lac Du	u Flamb	eau	
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Facility ID 764158560 Sample Dark brown fin cobbles 1 SS 20	Commen Wall Name		14/15	Started		рa	te Drillir 9/14/15		oleted	:1	rilling N Geopro	
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3 5	SS	42		13 - 14 -		medium brown	sand w/	cobbles		GM			0.0		М				And the second of the second o
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3 55	3	32		10 = 11 = 12 = 13 = 15 = 16 = 12	Saturated Angular gravel and fine	e sand			GM			8.5		W				
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